

# **EXHIBIT 82**

## Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth  
in the attached have been made a part of the  
records of the Copyright Office with claim  
of copyright registered under number

In testimony whereof, the seal of this office  
is affixed hereto on



**TX 2-992-651**

**October 2, 2019**

A handwritten signature in blue ink, reading 'Mary A. Tushnet', is written over a horizontal line.

United States Register of Copyrights and Director



FORM SE  
UNITED STATES COPYRIGHT OFFICE  
REGISTRATION NUMBER

TX 2-992-651

EFFECTIVE DATE OF REGISTRATION

FEB 04 1991  
Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

TITLE OF THIS SERIAL

1990 Annual Book of ASTM Standards: *Caseous Fuels; Coal + Coke*

Volume

05

Number

05.05

Date on Copies

October 1990

Frequency of Publication

Annual

PREVIOUS OR ALTERNATIVE TITLES

NAME OF AUTHOR

a American Society for Testing and Materials

Was this contribution to the work a "work made for hire"?

☐ Yes  
☒ No

AUTHOR'S NATIONALITY OR DOMICILE

Citizen of United States  
OR Domiciled in United States

DATES OF BIRTH AND DEATH

Year Born Year Died

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☒ No  
Pseudonym? ☐ Yes ☒ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of the material covered by this author in which copyright is claimed.

☐ Collective Work ☒ Other

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born Year Died

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☒ No  
Pseudonym? ☐ Yes ☒ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of the material covered by this author in which copyright is claimed.

☐ Collective Work ☒ Other

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born Year Died

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☒ No  
Pseudonym? ☐ Yes ☒ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of the material covered by this author in which copyright is claimed.

☐ Collective Work ☒ Other

YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED  
1990

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information Month Day Year  
1990 4 Year  
U.S.A.

COPYRIGHT CLAIMANT'S Name and address must be given even if the claimant is the same as the author given in space 2.

American Society for Testing & Materials  
1916 Race Street  
Philadelphia, PA 19103

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

APPLICATION RECEIVED

FILED IN 1991

REV 4/1991

REGISTRATION NUMBER AND DATE



TX 2-992-001

EXEMPTED BY *TX*

FORM SE

CREATED BY *WJ*

☐ CORRESPONDENCE

☐ YES

☐ DEPOSIT ACCOUNT

☐ FUNDS USED

FOR  
COPYRIGHT  
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ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**PREVIOUS REGISTRATION** Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?

☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) *5*

a. ☐ This is the first published version of an issue previously registered in unpublished form.

b. ☐ This is the first application submitted by this author as copyright claimant.

c. ☒ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number *TX 2 872 713* Year of Registration *1988*

**DERIVATIVE WORK OR COMPILATION** Complete both space 1a & 1b for a derivative work; complete only 1b for a compilation.

a. **Promoting Material** Identify any promoting work or works that this work is based on or incorporates. *1988 Annual Book of ASTM Standards, Section 05 Volume 05.05* *6*

*1988 Annual Book of ASTM Standards, Section 05 Volume 05.05*

b. **Material Added to This Work** Give a brief, general statement of the material that has been added to this work and to which copyright is claimed. *Compilation of previous published text plus additional text.* *7*

*Compilation of previous published text plus additional text.*

**MANUFACTURERS AND LOCATIONS** If this is a published work consisting predominantly of nondramatic literary material in English, the law may require that the copies be manufactured in the United States or Canada for full protection. If so, the names of the manufacturers who performed certain processes, and the places where those processes were performed must be given. See instructions for details.

Names of Manufacturers *Haverly Press, Inc.*

Places of Manufacture *Easton, MD*

*Haverly Press, Inc.*

*Easton, MD*

**REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS**

A signature on this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office. (1) Copies of the work identified in space 1 of this application in Braille (or similar tactile symbols) or (2) phonorecords embodying a fixation of a reading of that work; or (3) both. *8*

☒ Copies and Phonorecords

☐ Copies Only

☐ Phonorecords Only *9*

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name *Robert L. Meltzer*

Account Number *(215) 299-5431*

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent. *Robert L. Meltzer, ASTM*

*1916 Race Street*

*Philadelphia, PA 19103*

Area Code & Telephone Number *(215) 299-5431*

*(215) 299-5431*

**CERTIFICATION** I, the undersigned, hereby certify that I am the

Check one ☐

☐ author

☐ other copyright claimant

☐ owner of exclusive rights *American Society*

☒ authorized agent of *for Testing and Materials* *10*

Name of author or other copyright claimant, or owner of exclusive rights

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date *Robert L. Meltzer* If this is a published work, this date must be the same as or later than the date of publication given in space 1.

*Robert L. Meltzer*

Date *12/31/90*

*Robert L. Meltzer*

MAIL  
CERTIFICATE TO

Certificates  
will be  
mailed in  
window  
envelope

Name *Kathleen M. Hooper*

Address *ASTM, 1916 Race Street*

*Philadelphia, PA 19103*

*Philadelphia, PA 19103*

Make sure:

- Certificate of necessary support?
- Signed your application in space 10?
- Enclosed check or money order for \$10 payable to Register of Copyrights?
- Enclosed your deposit material with the application and fee?

SEND TO: Register of Copyrights,  
Library of Congress, Washington,  
D.C. 20540 *11*

\* 17 U.S.C. § 509: Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 408, or in any statement made in connection with the application, shall be fined not more than \$2,500.



# **EXHIBIT 83**

## Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth  
in the attached have been made a part of the  
records of the Copyright Office with claim  
of copyright registered under number

In testimony whereof, the seal of this office  
is affixed hereto on



**TX 2-201-054**

**October 2, 2019**

*Kary A. Lush*

United States Register of Copyrights and Director



**FORM SE**

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX

2-201-054

EFFECTIVE DATE OF REGISTRATION

10  
Month26  
Day87  
Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**TITLE OF THIS SERIAL**

1987 Annual Book of ASTM Standards, Gaseous Fuels; Coal &amp; Coke

Volume

05.05

Number

05

Date on Copies

October 1987

Frequency of Publication

Annual

**PREVIOUS OR ALTERNATIVE TITLES****NAME OF AUTHOR**

American Society for Testing and Materials

**DATES OF BIRTH AND DEATH**

Year Born

Year Died

Was this contribution to the work a  
"work made for hire?"☒ Yes☐ No**AUTHOR'S NATIONALITY OR DOMICILE**

Name of Country

OR Citizen of

Domiciled in United States

**WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK**

Anonymous?

☐ Yes ☐ No

Pseudonymous?

☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions

**NATURE OF AUTHORSHIP**

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work ☒ Other

Entire Text

**NAME OF AUTHOR****DATES OF BIRTH AND DEATH**

Year Born

Year Died

Was this contribution to the work a  
"work made for hire?"☐ Yes☐ No**AUTHOR'S NATIONALITY OR DOMICILE**

Name of Country

OR Citizen of

Domiciled in

**WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK**

Anonymous?

☐ Yes ☐ No

Pseudonymous?

☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions

**NATURE OF AUTHORSHIP**

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work ☐ Other**NAME OF AUTHOR****DATES OF BIRTH AND DEATH**

Year Born

Year Died

Was this contribution to the work a  
"work made for hire?"☐ Yes☐ No**AUTHOR'S NATIONALITY OR DOMICILE**

Name of Country

OR Citizen of

Domiciled in

**WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK**

Anonymous?

☐ Yes ☐ No

Pseudonymous?

☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions

**NATURE OF AUTHORSHIP**

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work ☐ Other**YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED**

1987

Year

This information must be given in all cases.

**DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE**

Complete this information ONLY if this work has been published.

Month

October

Day

Year

1987

Nation

COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2.

American Society for Testing and Materials  
1915 Race Street  
Philadelphia, PA 19103**APPLICATION RECEIVED**

OCT. 27, 1987

**ONE DEPOSIT RECEIVED**

OCT. 27, 1987

**TWO DEPOSITS RECEIVED**

OCT. 27, 1987

**REMITTANCE NUMBER AND DATE**

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

MORE ON BACK

• Complete all applicable spaces (numbers 5-11) on the reverse side of this page.  
• See detailed instructions.  
• Sign the form at line 10.

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Page 1 of 2 pages



EXAMINED BY

FORM SE

CHECKED BY

☐ CORRESPONDENCE  
Yes

☐ DEPOSIT ACCOUNT  
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USE  
ONLY

IX 2-201-054

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PREVIOUS REGISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?

☐ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼
a. ☐ This is the first published version of an issue previously registered in unpublished form.b. ☐ This is the first application submitted by this author as copyright claimant.c. ☒ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼

Year of Registration ▼

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1985 Annual Book of ASTM Standards Section 05 Volume 05.05

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

Compilation of previous published text plus additional text.

MANUFACTURERS AND LOCATIONS If this is a published work consisting preponderantly of nondramatic literary material in English, the law may require that the copies be manufactured in the United States or Canada for full protection. If so, the names of the manufacturers who performed certain processes, and the places where these processes were performed must be given. See instructions for details.

Names of Manufacturers ▼

Places of Manufacture ▼

Maverly Press, Inc. Easton, MD

REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS

A signature on this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both.

☒ Copies and Phonorecords

☐ Copies Only

☐ Phonorecords Only

See instructions

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ▼

Account Number ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

R. L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103

Area Code &amp; Telephone Number ▼

215-299-5431

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one ▼

☐ author

☐ other copyright claimant

☐ owner of exclusive right(s)

☐ authorized agent of

American Society for

Testing and Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▼

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge

Typed or printed name and date ▼ If this is a published work, this date must be the same as or later than the date of publication given in space 3

Robert L. Meltzer

date of 9/16/87

Handwritten signature (X) ▼

MAIL  
CERTIFI-  
CATE TOCertific-  
ate will be  
mailed in  
window  
envelope

Name ▼

Kathe Schell, ASTM

Number / Street / Apartment Number ▼

1916 Race Street

City/State/Zip ▼

Philadelphia, PA 19103

Have you:

- Completed all necessary spaces?
- Signed your application in space 10?
- Enclosed check or money order for \$10 payable to Register of Copyrights?
- Enclosed your deposit material with the application and fee?

MAIL TO: Register of Copyrights,  
Library of Congress, Washington,  
D.C. 20540

\* U.S.G. § 506: Any person who knowingly makes a false representation of a national fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

U.S. GOVERNMENT PRINTING OFFICE: 1986-491-560/40-000

July 1986-120,000



# **EXHIBIT 84**

**FORM SE**

For a Serial

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

10706983

TX 4-129-091



\*TX/004929091\*

EFFECTIVE DATE OF REGISTRATION

6 / 1 / 99  
Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**1 TITLE OF THIS SERIAL ▼**

1999 Annual Book of ASTM Standards, Water (II)

Volume ▼

Number

Date on Copies ▼

Frequency of Publication ▼

11.02

11

May 1999

Annual

**PREVIOUS OR ALTERNATIVE TITLES ▼****2****NAME OF AUTHOR ▼****a** American Society for Testing and Materials**DATES OF BIRTH AND DEATH**

Year Born ▼

Year Died

Was this contribution to the work a  
"work made for hire"?  
☒ Yes  
☐ No**AUTHOR'S NATIONALITY OR DOMICILE**

Name of Country

OR { Citizen of ►

Domiciled in ► United States

**WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK**Anonymous? ☐ Yes ☐ NoPseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

**NATURE OF AUTHORSHIP** Briefly describe nature of the material created by this author in which copyright is claimed. ▼☐ Collective Work

Other: Entire Text

**NAME OF AUTHOR ▼****DATES OF BIRTH AND DEATH**

Year Born ▼

Year Died ▼

Was this contribution to the work a  
"work made for hire"?  
☐ Yes  
☐ No**AUTHOR'S NATIONALITY OR DOMICILE**

Name of Country

OR { Citizen of ►

Domiciled in ►

**WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK**Anonymous? ☐ Yes ☐ NoPseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

**NATURE OF AUTHORSHIP** Briefly describe nature of the material created by this author in which copyright is claimed. ▼☐ Collective Work

Other:

**NAME OF AUTHOR ▼****DATES OF BIRTH AND DEATH**

Year Born ▼

Year Died

Was this contribution to the work a  
"work made for hire"?  
☐ Yes  
☐ No**AUTHOR'S NATIONALITY OR DOMICILE**

Name of Country

OR { Citizen of ►

Domiciled in ►

**WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK**Anonymous? ☐ Yes ☐ NoPseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

**NATURE OF AUTHORSHIP** Briefly describe nature of the material created by this author in which copyright is claimed. ▼☐ Collective Work

Other:

**3****YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED**

1999 Year

This information must be given in all cases.

**DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE**

Complete this information ONLY if this work has been published.

Month ► May Day ► 12 Year ► 1999

United States

Nation

**4****COPYRIGHT CLAIMANT(S)** Name and address must be given even if the claimant is the same as the author given in space 2. ▼

American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

**TRANSFER** If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

APPLICATION RECEIVED

JUN 01 1999

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

JUN 01 1999

REMITTANCE NUMBER AND DATE

See instructions before completing this space.

DO NOT WRITE HERE OFFICE USE ONLY

**MORE ON BACK ►**• Complete all applicable spaces (numbers 5-11) on the reverse side of this page.  
• See detailed instructions.

• Sign the form at line 10.

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Page 1 of 2 pages



EXAMINED BY

FORM SE

CHECKED BY

CORRESPONDENCE  
YesFOR  
COPYRIGHT  
OFFICE  
USE  
ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**PREVIOUS REGISTRATION** Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼a. ☐ This is the first published version of an issue previously registered in unpublished form.b. ☐ This is the first application submitted by this author as copyright claimant.c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number

Year of Registration ▼

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 11, Volume 11.02

b. **Material Added to This Work** Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

Compilation of previous published text plus additional text.

---space deleted---

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See instructions.

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ▼

Account Number

American Society for Testing and Materials

DA078328

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

Be sure to  
give your  
daytime phone  
number.**CERTIFICATION\*** I, the undersigned, hereby certify that I am the

Check only one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of American Society for Testing & Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 5-24-99

MAIL  
CERTIFICATE  
TOCertificate  
will be  
mailed in  
window  
envelope

Name

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

100 Barr Harbor Drive

City/State/ZIP ▼

West Conshohocken, PA 19428-2959

FOR FIRST

• Complete all necessary spaces  
• Sign your application in space 10SEND BY TELEPHONE  
IN THE PAYEE PACKAGE1. Application form  
2. Nonrefundable \$20 filing fee  
in check or money order  
payable to Register of Copyrights  
3. Deposit materialMAIL TO  
Register of Copyrights  
Library of Congress  
Washington, D.C. 20559The Copyright Office has  
the authority to adjust  
fees at 5-year intervals,  
based on changes in the  
Consumer Price Index.  
The next adjustment is  
due in 1999. Please  
contact the Copyright  
Office after July 1999 to  
determine the actual fee  
schedule.

\*17 U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

This form was electronically produced by Elite Federal Forms, Inc.

# **EXHIBIT 85**

Registration number  
NY 3 450 603

Effective date of registration  
JAN 12 1993

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**TITLE OF THIS SERIAL**

1992 Annual Book of ASTM Standards: Petroleum Products and Lubricants  
(1); D 1949 - D 3601

Volume # Number # Date as Copied # Frequency of Publication #

63 63 March Annual  
PREVIOUS OR ALTERNATIVE TITLES

**NAME OF AUTHOR**

American Society for Testing and Materials

DATE OF BIRTH AND DEATH  
Year Month Year

Was the contribution to the work a  
"work made for hire"?

AUTHOR'S NATIONALITY OR DOMICILE

☐ Yes  
☐ No

☒ Citizen of U.S.  
(Indicate in # United States)

WAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK

Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

**NATURE OF AUTHORSHIP**

Briefly describe nature of the material created by the author in which copyright is claimed.

☐ Collective Work ☒ Other

Entire Text

**NAME OF AUTHOR**

DATE OF BIRTH AND DEATH  
Year Month Year

Was the contribution to the work a  
"work made for hire"?

AUTHOR'S NATIONALITY OR DOMICILE

☐ Yes  
☐ No

☒ Citizen of U.S.  
(Indicate in # )

WAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK

Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

**NATURE OF AUTHORSHIP**

Briefly describe nature of the material created by the author in which copyright is claimed.

☐ Collective Work ☐ Other

**NAME OF AUTHOR**

DATE OF BIRTH AND DEATH  
Year Month Year

Was the contribution to the work a  
"work made for hire"?

AUTHOR'S NATIONALITY OR DOMICILE

☐ Yes  
☐ No

☒ Citizen of U.S.  
(Indicate in # )

WAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK

Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

**NATURE OF AUTHORSHIP**

Briefly describe nature of the material created by the author in which copyright is claimed.

☐ Collective Work ☐ Other

YEAR IN WHICH CREATION OF THIS  
ISSUE WAS COMPLETED  
1992

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
Contains this information  
Month # Day # Year #  
March 23 1992  
U.S.A.

COPYRIGHT CLAIMANT'S name and address must be given from if the copyright is the same as the author given in space 1.

American Society for Testing & Materials  
1916 Race Street  
Philadelphia, PA 19103-1187

TRANSFER is the claimant's name here in space 3 and address from the particular transfer in space 1, give a brief statement of how the claimant obtained ownership of the copyright.

APPLICATION RECEIVED  
JAN 12 1993

OFF DEPOSIT RECEIVED

RECEIVED

JAN 12 1993

COPYRIGHT CLAIMANT'S

NOTE ON BACK

1. Complete or associate Special Markings 1 through 10, please use 11-14 as appropriate.  
2. See detailed instructions.  
3. See the back of this form.

DO NOT WRITE ABOVE THIS LINE

IT 3 450 603

FORM 100

FORM 100

DATE OF DEPOSIT

☐ Copyright Office

FOR COPYRIGHT OFFICE USE ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**PREVIOUS REGISTRATION** Has registration of this work, or of a material amount of this particular work, already been made at the Copyright Office?

☒ Yes ☐ No If "Yes," give another registration being sought? Check appropriate box ☐

a ☐ This is the first published version of an issue previously registered as unpublished work.

b ☐ This is the first application submitted for this work as copyright material.

c ☐ This is a changed version of this work, as shown by space 5 on this application.

If work entered as "Yes," give Previous Registration Number ☐

Year of Registration ☐

TX 3 035-160

1991

**DERIVATIVE WORK OR COMPILATION** Copyright law gives to the author of a derivative work, consisting wholly or partly of material previously published or otherwise in the public domain, a copyright in that work.

a ☐ Previous Material Material already published or in the public domain, on which this work is based or in which it is incorporated.

1991 Annual Book of ASTM Standards, Section 05, Volume 02.

b ☐ Material Added in This Work Give a brief general statement of the material that has been added to this work and in which your rights are claimed.

Compilation of previous published text plus additional text.

—space deleted—

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1. In the application of this law, the following definitions apply: (a) "physically handicapped" includes a person who is blind or visually handicapped, or who is deaf or hearing impaired, or who is physically handicapped in such a way as to prevent the person from being able to use the work in the usual manner.

☒ Library and Archives

☐ Copyright Office

☐ Phonograph Record

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account registered at the Copyright Office, give name and number of account.

**CLAIMANT**

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Phone Call to Copyright Office 215-295-5431

**CERTIFICATION** I, the undersigned, hereby certify that I am the author of the work described in this application and that the statements made by me in this application are correct to the best of my knowledge.

Check one ☐

☐ Author

☐ Other copyright owner

☐ Owner of exclusive rights

☒ Authorized agent of American Society for Testing and Materials

of the work described in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date of this application given a date of publication in space 1, do not sign and submit a form that date.

Robert L. Meltzer

DATE DEPOSITED 12-1-1991



Handwritten signature of Robert L. Meltzer

Robert L. Meltzer

MAIL CENTRAL CASE TO

Kathe Hooper, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Certificates will be mailed in envelope separately

1. Certificate of registration  
2. Certificate of deposit  
3. Certificate of publication  
4. Certificate of first sale  
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# **EXHIBIT 86**

# CERTIFICATE OF REGISTRATION



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*Marybeth Peters*  
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United States of America

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For a Serial

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REGISTRATION NUMBER

TX 4-893-151



TX0004893151

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Month 4 Day 29 Year 99

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TITLE OF THIS SERIAL.

**1**

1999 Annual Book of ASTM Standards: Soil and Rock (I): D 420- D 4915

Volume ▼	Number ▼	Date on Copies	Frequency of Publication ▼
04.08	04	March 1999	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

**2**

NAME OF AUTHOR ▼

**a** American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died

Was this contribution to the work a "work made for hire"?  
☒ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of  
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of  
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of  
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other:

**3**

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**a** 1999 Year

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DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

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**4**

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American Society for Testing and Materials  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

APPLICATION RECEIVED

APR 29, 1999

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

APR 29, 1999

REMITTANCE NUMBER AND DATE

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• Complete all applicable spaces (numbers 5-11) on the reverse side of this page.  
• See detailed instructions.

• Sign the form at line 10.

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Page 1 of 2 pages

**NOTE**

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank.

See instructions before completing this space.

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FORM SE

CHECKED BY

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☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼
a. ☐ This is the first published version of an issue previously registered in unpublished form.b. ☐ This is the first application submitted by this author as copyright claimant.c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number

Year of Registration ▼

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 04, Volume 04.08

b. **Material Added to This Work** Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

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See instructions  
before completing  
this space.

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a. ☒ Copies and Phonorecordsb. ☐ Copies Onlyc. ☐ Phonorecords Only

See instructions.

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ▼

Account Number

American Society for Testing and Materials

DA078328

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

Be sure to  
give your  
daytime phone  
number.**CERTIFICATION\*** I, the undersigned, hereby certify that I am the

Check only one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of American Society for Testing & Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 4-8-99



Handwritten signature (X) ▼

**MAIL  
CERTIFICATE  
TO**

 Certificate  
will be  
mailed in  
window  
envelope

Name ▼

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

100 Barr Harbor Drive

City/State/ZIP

West Conshohocken, PA 19428-2959

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• Sign your application in space 10

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2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

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Washington, D.C. 20559

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\*17 U.S.C. § 506(e). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

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*Marybeth Peters*  
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United States of America

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REGISTRATION NUMBER

TX 4-951-524



EFFECTIVE DATE OF REGISTRATION

**AUG - 9 1999**

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**TITLE OF THIS SERIAL ▼**

**1** 1999 Annual Book of ASTM Standards - Gaseous Fuels; Coal and Coke

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
05.05	05	September 1999	Annual

**PREVIOUS OR ALTERNATIVE TITLES ▼**

**NAME OF AUTHOR ▼**

**a** American Society for Testing and Materials

**DATES OF BIRTH AND DEATH**

Year Born Year Died ▼

Was this contribution to the work a "work made for hire"?  
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☐ No

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OR { Citizen of ▶

Domiciled in ▶ United States

**WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK**

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Pseudonymous? ☐ Yes ☐ No

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**NATURE OF AUTHORSHIP** Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other: Entire Text

**NAME OF AUTHOR ▼**

**DATES OF BIRTH AND DEATH**

Year Born Year Died ▼

Was this contribution to the work a "work made for hire"?  
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☐ No

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OR { Citizen of ▶

Domiciled in ▶

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☐ Collective Work Other:

**NAME OF AUTHOR ▼**

**DATES OF BIRTH AND DEATH**

Year Born Year Died ▼

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☐ No

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Name of Country

OR { Citizen of ▶

Domiciled in ▶

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Pseudonymous? ☐ Yes ☐ No

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**NATURE OF AUTHORSHIP** Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other:

**YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED**

This information must be given in all cases.

1999 Year

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Month ▶ August Day ▶ 3 Year ▶ 1999

United States

Nation

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American Society for Testing and Materials  
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West Conshohocken, PA 19428-2959

**TRANSFER** If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

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TWO DEPOSITS RECEIVED

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If your answer is "Yes," give: Previous Registration Number ▼

Year of Registration ▼

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 05, Volume 05.05

b. **Material Added to This Work** Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

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**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.  
Name ▼ Account Number

American Society for Testing and Materials

DA078328

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

**CERTIFICATION** I, the undersigned, hereby certify that I am the

Check only one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of American Society for Testing & Materials

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 8-3-99

Handwritten signature (X) MAIL  
CERTIFICATE  
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will be  
mailed in  
envelope

Name

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

100 Barr Harbor Drive

City/State/ZIP ▼

West Conshohocken, PA 19428-2959

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- Complete all necessary spaces
- Sign your application in space 10

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1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
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Library of Congress  
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 3-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1996. Please contact the Copyright Office after July 1995 to determine the actual fee schedule.

\*17 U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

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100714536



100714536

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TX0004693073

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Volume ▼	Number ▼	Date on Copies	Frequency of Publication ▼
11.02	11	May 1998	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2

## NAME OF AUTHOR ▼

a American Society for Testing and Materials

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 Year Born ▼ Year Died

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 "work made for hire"?  
☒ Yes  
☐ No

 AUTHOR'S NATIONALITY OR DOMICILE  
 Name of Country  
 OR { Citizen of ►  
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United States

 WAS THIS AUTHOR'S CONTRIBUTION TO  
 THE WORK  
 Anonymous? ☐ Yes ☐ No  
 Pseudonymous? ☐ Yes ☐ No  
 If the answer to either of these questions is "Yes," see detailed instructions.

 NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other: Entire Text

## NAME OF AUTHOR ▼

 DATES OF BIRTH AND DEATH  
 Year Born ▼ Year Died ▼

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☐ No

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 Name of Country  
 OR { Citizen of ►  
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☐ Collective Work Other:

## NAME OF AUTHOR ▼

 DATES OF BIRTH AND DEATH  
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☐ No

 AUTHOR'S NATIONALITY OR DOMICILE  
 Name of Country  
 OR { Citizen of ►  
 Domiciled in ►

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 THE WORK  
 Anonymous? ☐ Yes ☐ No  
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## YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

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Nation

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TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

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a. ☐ This is the first published version of an issue previously registered in unpublished form.b. ☐ This is the first application submitted by this author as copyright claimant.c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼ Year of Registration

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼  
1997 Annual Book of ASTM Standards, Section 11, Volume 11.02b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼  
Compilation of previous published text plus additional text.

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a. ☒ Copies and Phonorecordsb. ☐ Copies Onlyc. ☐ Phonorecords Only

See instructions.

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.  
Name Account Number ▼

American Society for Testing and Materials

DA078328

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Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check only one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of American Society for Testing & Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

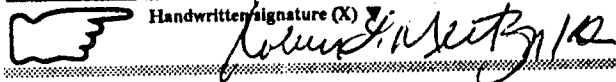
of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 5-11-98

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MAIL  
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will be  
mailed in  
window  
envelope

Name ▼

Kathe Hooper, ASTM

Number/Street/Apartment Number

100 Barr Harbor Drive

City/State/ZIP ▼

West Conshohocken, PA 19428-2959

• Complete all necessary spaces

• Sign your application in space 10

1. Application form

2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights

3. Deposit material

Register of Copyrights  
Library of Congress  
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1999. Please contact the Copyright Office after July 1999 to determine the actual fee schedule.

# **EXHIBIT 89**

## Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth  
in the attached have been made a part of the  
records of the Copyright Office with claim  
of copyright registered under number

In testimony whereof, the seal of this office  
is affixed hereto on



TX 3-512-412

October 1, 2019

A handwritten signature in black ink, reading "Kay A. Lusk".

United States Register of Copyrights and Director



**FORM SE**  
UNITED STATES COPYRIGHT OFFICE  
REGISTRATION NUMBER

TX 3 512-412

EFFECTIVE DATE OF REGISTRATION

4 Month 12 Day 93 Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**1** TITLE OF THIS SERIAL

1993 Annual Book of ASTM Standards: *Petroleum Products, Lubricants, and Special Fuels: Petroleum Products and Lubricants (I): D56-D2596*

Volume

05

Number

01

Date on Copies

FEBRUARY 1993

Frequency of Publication

Annual

PREVIOUS OR ALTERNATIVE TITLES

**2** NAME OF AUTHOR

American Society for Testing and Materials

DATES OF BIRTH AND DEATH

Year Born

Year Died

Was this contribution to the work a "work made for hire"?

☒ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR Citizen of United States  
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work Other: Entire Text

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born

Year Died

Was this contribution to the work a "work made for hire"?

☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR Citizen of United States  
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born

Year Died

Was this contribution to the work a "work made for hire"?

☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR Citizen of United States  
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work Other:

**3** YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1993

With information must be given in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published.

Month 2 Day 16 Year 93  
U.S.A.

**4** COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2.

American Society for Testing & Materials  
1916 Race Street  
Philadelphia, PA 19103-1187

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

APPLICATION RECEIVED

APR 13 1993

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TWO DEPOSITS RECEIVED

APR 13 1993

REGISTRATION NUMBER AND DATE

NOTE ON BACK

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TX 3 512-412

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PREVIOUS REGISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?

☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼a. ☐ This is the first published version of an issue previously registered in unpublished form.b. ☐ This is the first application submitted by this author as copyright claimant.c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼

Year of Registration ▼

TX 3 512 512

1992

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates ▼  
1992 Annual Book of ASTM Standards, Section 15, Volume 01.

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed ▼

Compilation of previous published text plus additional text.

—space deleted—

REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS

A signature on this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols), or (2) phonorecords embodying a fixation of a reading of that work; or (3) both.

☒ Copies and Phonorecords☐ Copies Only☐ Phonorecords OnlyDEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account  
Name ▼  
Account Number ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code &amp; Telephone Number ▶ 215-299-5431

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one ▶

☐ author☐ other copyright claimant☐ owner of exclusive rights

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

☒ authorized agent of American Society for Testing and Materials

Name of author or other copyright claimant (or owner of exclusive rights) ▼

Type I or printed name and date ▼ If this application gives a date of publication in space 1, do not sign and return it before that date.

Robert L. Meltzer

date ▶ 3/12/93

Handwritten signature (X) ▼

MAIL  
CERTIFICATE TO

Name ▼

Kathe Hooper, ASTM

Number/Street Apartment Number ▼

1916 Race Street

City/State/Zip ▼

Philadelphia, PA 19103-1187

Certificate will be mailed in window envelope

• Complete all necessary spaces  
• Sign your application in space 101. Application form  
2. Non-refundable \$20 filing fee in check or money order payable to Registrar of Copyrights  
3. Copyright materialRegistrar of Copyrights  
Library of Congress  
Washington, D.C. 20540

U.S.C. § 508(a) Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 405 or in any written statement filed in the application, shall be fined not more than \$2,500.

10-1000-75,000

U.S. GOVERNMENT PRINTING OFFICE 1990-282-179/20,000

# **EXHIBIT 90**



# CERTIFICATE OF REGISTRATION



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

*Marybeth Peters*

REGISTER OF COPYRIGHTS  
United States of America

**FORM SE**  
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 4-029-468



EFFECTIVE DATE OF REGISTRATION

**MAR 16 1995**

Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET

**1**

TITLE OF THIS SERIAL ▼  
1995 Annual Book of ASTM Standards: *Petroleum Products, Lubricants and Fossil Fuels*  
*Petroleum Products and Lubricants (I): 12597-D4629*

Volume ▼ Number ▼ Date on Copies ▼ Frequency of Publication ▼  
*05 02 March 1995 Annual*

PREVIOUS OR ALTERNATIVE TITLES ▼

**2**

NOTE: Under the law the "author" of a "work made for hire" is generally the employer not the employee.

NAME OF AUTHOR ▼  
*American Society for Testing and Materials*

Was this contribution to the work a "work made for hire"? ☒ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country: *United States*  
OR Citizen of: *United States*  
Domiciled in: *United States*

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work ☒ Other: *Entire Text*

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

**3**

NAME OF AUTHOR ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country: *U.S.A.*  
OR Citizen of: *U.S.A.*  
Domiciled in: *U.S.A.*

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work ☐ Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

**4**

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED *1995* ☐ Year ☐ Month ☐ Day

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
Month: *March* Day: *1* Year: *1995*  
U.S.A.

COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼  
*American Society for Testing & Materials  
1916 Race Street  
Philadelphia, PA 19103-1187*

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. ▼

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TWO DEPOSITS RECEIVED  
MAR 16 1995

REMITTANCE NUMBER AND DATE

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Page 1 of \_\_\_\_\_ pages

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☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼
a. ☐ This is the first published version of an issue previously registered in unpublished form.b. ☐ This is the first application submitted by this author as copyright claimant.c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give Previous Registration Number ▼

Year of Re-registration ▼

TX# 3-881-479

1994

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work, complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1994 Annual Book of ASTM Standards, Section 05, Volume 02.

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

Compilation of previous published text plus additional text.

See instructions  
before completing  
this space

—space deleted—

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☐ Copies Only

☐ Phonorecords Only

See instructions

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.  
Name ▼ Account Number ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name Address Apt City State Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA

19103-1187

Area Code &amp; Telephone Number ▶ 215-299-5431

Be sure to  
give your  
daytime phone  
number

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check one ▶

☐ author

☐ other copyright claimant

☐ owner of exclusive right(s)

☒ authorized agent of American Society for Testing and Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▶

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶

March 8, 1995



Handwritten signature (X) ▼

MAIL  
CERTIFI-  
CATE TOCertificate  
will be  
mailed in  
window  
envelope

Name ▼

Kathe Hooper, ASTM

Number Street Apartment Number ▼

1916 Race Street

City State ZIP ▼

Philadelphia, PA

19103-1187

☐ Complete all necessary spaces  
☐ Sign your application in space 10

 1. Application form  
 2. Nonrefundable \$20 filing fee  
 in check or money order  
 payable to Registrar of Copyrights  
 3. Deposit material

 Registrar of Copyrights  
 Library of Congress  
 Washington, D.C. 20559

\* 17 U.S.C. § 506(e). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

December 1980—75,000

☆U.S. GOVERNMENT PRINTING OFFICE: 1980—282-170-20,005

# **EXHIBIT 91**



# CERTIFICATE OF REGISTRATION



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

*Marybeth Peters*  
REGISTER OF COPYRIGHTS  
United States of America

## FORM SE

For a Serial  
UNITED STATES COPYRIGHT OFFICE  
REGISTRATION NUMBER

TX 4-898-490



EFFECTIVE DATE OF REGISTRATION

4 20 99  
Month Day Year

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TITLE OF THIS SERIAL ▼

1999 Annual Book of ASTM Standards, Petroleum Products and Lubricants (II): D 2597 - D 4927

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
05.02	05	March 1999	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

NAME OF AUTHOR ▼

a American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died

Was this contribution to the work a  
"work made for hire"?  
☒ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ►  
Domiciled in ► United States

WAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a  
"work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ►  
Domiciled in ►

WAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
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NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died

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☐ Collective Work Other:

3 a YEAR IN WHICH CREATION OF THIS  
ISSUE WAS COMPLETED

1999 Year

b DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

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Month ► March Day ► 24 Year ► 1999

United States

◀ Nation

4 COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼

American Society for Testing and Materials  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

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APR 20 1999

REMITTANCE NUMBER AND DATE

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**PREVIOUS REGISTRATION** Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼a. ☐ This is the first published version of an issue previously registered in unpublished form.b. ☐ This is the first application submitted by this author as copyright claimant.c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼ Year of Registration ▼

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 05, Volume 05.02

b. **Material Added to This Work** Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.See instructions  
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this space.

Compilation of previous published text plus additional text.

---space deleted---

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See instructions.

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.  
Name ▼ Account Number ▼

American Society for Testing and Materials

DA078328

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

Be sure to  
give your  
daytime phone  
number.**CERTIFICATION\*** I, the undersigned, hereby certify that I am the

Check only one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of American Society for Testing & Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 3-29-99

Handwritten signature (X)

**MAIL  
CERTIFICATE  
TO**Certificate  
will be  
mailed in  
window  
envelope

Name	Kathe Hooper, ASTM
Number/Street/Apartment Number ▼	100 Barr Harbor Drive
City/State/ZIP ▼	West Conshohocken, PA 19428-2959

<b>FOR LIST</b>
• Complete all necessary spaces
• Sign your application in space 10
<b>SEND ALL ELEMENTS IN THE SAME PACKAGE</b>
1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to <i>Register of Copyrights</i>
3. Deposit material
<b>MAIL TO</b>
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\*17 U.S.C. § 506(e). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

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# **EXHIBIT 92**

TX 2-209-876

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12 10 87  
Month Day Year

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1  
TITLE OF THIS SERIAL ▼  
1987 Annual Book of ASTM Standards, Textiles - Yarns, Fabrics, and General Test Methods

Volume ▼ Number ▼ Date on Copies ▼ Frequency of Publication ▼  
07.01 07 October 1987 Annual  
PREVIOUS OR ALTERNATIVE TITLES ▼

2  
a  
NAME OF AUTHOR ▼  
American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a  
"work made for hire"?  
☒ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of  
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a  
"work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of country  
OR { Citizen of  
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a  
"work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of  
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other:

YEAR IN WHICH CREATION OF THIS  
ISSUE WAS COMPLETED  
1987  
This information must be given in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
Complete this information ONLY if this work has been published.  
Month November Day 11 Year 1987  
U. S. A. Nation

COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼

American Society for Testing and Materials  
1916 Race Street  
Philadelphia, PA 19103

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. ▼

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NOTE

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TX 2-209-876

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TX 1-959-457

Year of Registration ▼

1986

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a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1986 Annual Book of ASTM Standards Section 07 Volume 07.01

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼  
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Places of Manufacture ▼

Easton, MD

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a. ☒ Copies and Phonorecordsb. ☐ Copies Onlyc. ☐ Phonorecords OnlyDEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.  
Name ▼ Account Number ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

R. L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103

Area Code &amp; Telephone Number ▶

215-299-5431

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent ofAmerican Society for  
Testing and Materials

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Name of author or other copyright claimant, or owner of exclusive right(s) ▶

Typed or printed name and date ▼ If this is a published work, this date must be the same as or later than the date of publication given in space 3.

Robert L. Meltzer

12/02/87

date ▶

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MAIL  
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CATE TOCertificate  
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mailed in  
window  
envelope

Name ▼

Kathe Scholl, ASTM

Number/Street/Apartment Number ▼

1916 Race Street

City/State/Zip ▼

Philadelphia, PA 19103

Have you:

- Completed all necessary spaces?
- Signed your application in space 10?
- Enclosed check or money order for \$10 payable to Register of Copyrights?
- Enclosed your deposit material with the application and fee?

MAIL TO: Register of Copyrights,  
Library of Congress, Washington,  
D.C. 20559.

\* 17 U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

# **EXHIBIT 93**

# FORM SE

For a Serial

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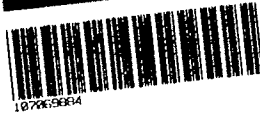
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6 / 99  
Month Day Year

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## TITLE OF THIS SERIAL ▼

1999 Annual Book of ASTM Standards, Water (I)

Volume

Number ▼

Date on Copies ▼

Frequency of Publication ▼

11.01

11

April 1999

Annual

## PREVIOUS OR ALTERNATIVE TITLES ▼

## NAME OF AUTHOR

a American Society for Testing and Materials

## DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a  
☒ Yes "work made for hire"?  
☐ No

## AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR { Citizen of ▶

Domiciled in ▶ United States

## WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work

Other: Entire Text

## NAME OF AUTHOR ▼

## DATES OF BIRTH AND DEATH

Year Born

Year Died ▼

Was this contribution to the work a  
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☐ No

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Domiciled in ▶

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☐ Collective Work

Other:

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Year Died ▼

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100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

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Page 1 of 2 pages

1

2

NOTE

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c

3

a

b

4

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Year of Registration ▼

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a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 11, Volume 11.01

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

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Name ▼

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American Society for Testing and Materials

DA078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

Be sure to  
give your  
daytime phone  
number.

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check only one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of American Society for Testing & Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▶

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 5-24-99



Handwritten signature (X) ▼

MAIL  
CERTIFICATE  
TO

Name

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

100 Barr Harbor Drive

City/State/ZIP ▼

West Conshohocken, PA 19428-2959

Certificate  
will be  
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\*17 U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

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# **EXHIBIT 94**

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*Marybeth Peters*

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United States of America

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For a Serial  
UNITED STATES COPYRIGHT OFFICE  
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TX 4-622-434



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Month

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1998 Annual Book of ASTM Standards *PETROLEUM PRODUCTS, LUBRICANTS, and Fossil Fuels: PETROLEUM PRODUCTS AND LUBRICANTS (11): D2597 - D4629*

Volume ▼

Number ▼

Date on Copies ▼

Frequency of Publication ▼

*05.02*

*05*

*MARCH 1998*

*Annual*

PREVIOUS OR ALTERNATIVE TITLES ▼

NAME OF AUTHOR ▼

*a* American Society for Testing and Materials

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR Citizen of ▼

Domiciled in ▼ *United States*

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other: *Entire Text*

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR Citizen of ▼

Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

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☐ Collective Work

Other:

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Year Born ▼

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**West Conshohocken, PA 19428-2959**

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\* Amended by C.O. authority telephone call of 3-16-98 with Ms. Hooper

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Year of Registration

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Name American Society for Testing and Materials

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CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address: Apt-City-State-Zip

Robert L. Meltzer, ASTM  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

Area Code & Telephone Number 610-832-9632

Be sure to give your daytime phone number

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one

- author
- other copyright claimant
- owner of exclusive right(s)
- authorized agent of

American Society for Testing and Materials

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Name of author or other copyright claimant, or owner of exclusive right(s)

Typed or printed name and date If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date 2/3/98



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MAIL CERTIFICATE TO

Certificate will be mailed in window envelope

Name  
Kathe Hooper, ASTM

Number Street Apartment Number  
100 Barr Harbor Drive

City State ZIP  
West Conshohocken, PA 19428-2959

1. Application form

2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights

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Washington, D.C. 20540

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\* 17 U.S.C. § 506(e) Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500

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United States of America

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•T:20084399608•

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1996  
Year

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TITLE OF THIS SERIAL ▼

1996 Annual Book of ASTM Standards

*Water and Environmental Technology  
atmospheric analysis; Occupational Health and Safety;  
protective clothing*

Volume ▼

Number ▼

Date on Copies ▼

Frequency of Publication ▼

11

03

October 1996

Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"?

☒ Yes

☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR { Citizen of ▼

Domiciled in ▼

United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes" see detailed instructions

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other:

Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

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This information must be given in all cases.

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Nation

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100 Barr Harbor Drive  
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TH# 4-174-346

Year of Registration ▼

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1996 Annual Book of ASTM Standards, Section 11, Volume 13.b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼  
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this space

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Name ▼ American Society for  
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Account Number ▼

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CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address: Apt City State Zip ▼

Robert L. Meltzer, ASTM

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▼ 610-832-9632

Be sure to  
give your  
daytime phone  
number

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent ofAmerican Society  
for Testing and Materials

Name of author or other copyright claimant or owner of exclusive right(s) ▼

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Robert L. Meltzer

date ▼

December 3, 1996

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL  
CERTIFI-  
CATE TO

Name ▼

Judy Helm, ASTM

Number Street Apartment Number ▼

100 Barr Harbor Drive

City State ZIP ▼

West Conshohocken, PA 19428-2959

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- Sign your application in space 10

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3. Deposit material

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Copyright fees are adjusted at 5-year intervals, based on increases or decreases in the Consumer Price Index. The next adjustment is due in 1995. Contact the Copyright Office in January 1995 for the new fee schedule.

\* 17 U.S.C. § 506(h). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409 or in any written statement filed in connection with the application shall be fined not more than \$2,500.

June 1992—50,000

U.S. GOVERNMENT PRINTING OFFICE: 1992—312-432/60,002

# **EXHIBIT 96**



# CERTIFICATE OF REGISTRATION



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*Marybeth Peters*

REGISTER OF COPYRIGHTS

**FORM SE**  
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UNITED STATES COPYRIGHT OFFICE  
RE:

TX 4-511-604

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7 1 1997

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TITLE OF THIS SERIAL ▼

1997 Annual Book of ASTM Standards:

and Forest Products

*Petroleum Products and Lubricants*

Volume ▼

05

Number ▼

03

Date on Copies ▼

7/21/97

Frequency of Publication ▼

Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2 NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☒ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ▼  
Domiciled in ▼

United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed ▼

Collective Work Other Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ▼  
Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed ▼

Collective Work Other

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ▼  
Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed ▼

Collective Work Other

3 YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED  
1997 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
Complete this information ONLY if this work has been published. Month Day Year U.S.A.

4 COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2 ▼

American Society for Testing & Materials  
100 Barr Harbor Drive  
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• See detailed instructions.

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Page 1 of 1 pages

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If your answer is "Yes," give: Previous Registration Number ▼

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TH# 4-363-346

1996

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a & 6b for a derivative work; complete only 6b for a compilationa. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates ▼**1997 Annual Book of ASTM Standards, Section 15, Volume 03.**b. **Material Added to This Work** Give a brief, general statement of the material that has been added to this work and in which copyright is claimed ▼  
**Compilation of previous published text plus additional text.**See instructions  
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this space

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a. ☒ Copies and Phonorecordsb. ☐ Copies Onlyc. ☐ Phonorecords Only

See instructions

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of AccountName ▼ **American Society for  
Testing and Materials**

Account Number ▼

# DA078328

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent Name Address Apt City State Zip ▼**Robert L. Meltzer, ASTM****100 Barr Harbor Drive****West Conshohocken, PA 19428-2959**Area Code & Telephone Number ▼ **610-832-9632**Be sure to  
give your  
daytime phone  
number**CERTIFICATION\*** I, the undersigned, hereby certify that I am the

Check one ►

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of**American Society  
for Testing and Materials**

Name of author or other copyright claimant or owner of exclusive right(s) ▼

of the work identified in this application and that the statements made  
by me in this application are correct to the best of my knowledge

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

**Robert L. Meltzer**

date ►

June 19, 1996

Handwritten signature (X) ▼

Robert L. Meltzer

**MAIL  
CERTIFI-  
CATE TO****Certificate  
will be  
mailed in  
window  
envelope**

Name ▼

**Judy Helm, ASTM**

Number Street Apartment Number ▼

**100 Barr Harbor Drive**

City State ZIP ▼

**West Conshohocken, PA 19428-2959****YOU MUST**

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the Consumer Price In-  
dex. The next adjust-  
ment is due in 1995.  
Contact the Copyright  
Office in January 1995  
for the new fee sched-  
ule.

\* 17 U.S.C. § 506(e). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409 or in any written statement filed in connection with the application shall be fined not more than \$2,500.

June 1992—50,000

U.S. GOVERNMENT PRINTING OFFICE: 1992—312-432/60,002

# **EXHIBIT 97**



## Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth  
in the attached have been made a part of the  
records of the Copyright Office with claim  
of copyright registered under number

In testimony whereof, the seal of this office  
is affixed hereto on



**TX 3-553-811**

**October 1, 2019**

*Kary A. Lundy*

United States Register of Copyrights and Director



# FORM SE

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 3 553-811

EFFECTIVE DATE OF REGISTRATION

JUNE 21 1993  
Month Day Year

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**TITLE OF THIS SERIAL**  
1993 Annual Book of ASTM Standards: WATER AND ENVIRONMENTAL TECHNOLOGY: WATER (11)

**Volume** 11.02 **Number** 11 **Date on Copies** APRIL 1993 **Frequency of Publication** Annual  
**PREVIOUS OR ALTERNATIVE TITLES**

**NAME OF AUTHOR**

American Society for Testing and Materials

**DATES OF BIRTH AND DEATH**  
Year Born Year Died

Was this contribution to the work a "work made for hire?"

☒ Yes  
☐ No

**AUTHOR'S NATIONALITY OR DOMICILE**  
Name of Country

OR Citizen of United States  
Domiciled in

**WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK**

Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

**NATURE OF AUTHORSHIP**

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work ☒ Other: Entire Text

**NAME OF AUTHOR**

**DATES OF BIRTH AND DEATH**  
Year Born Year Died

Was this contribution to the work a "work made for hire?"

☐ Yes  
☐ No

**AUTHOR'S NATIONALITY OR DOMICILE**  
Name of Country

OR Citizen of  
Domiciled in

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**NATURE OF AUTHORSHIP**

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☐ Collective Work ☐ Other:

**NAME OF AUTHOR**

**DATES OF BIRTH AND DEATH**  
Year Born Year Died

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☐ No

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Name of Country

OR Citizen of  
Domiciled in

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Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

**NATURE OF AUTHORSHIP**

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☐ Collective Work ☐ Other:

**YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED**

1993

**DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE**

Month 4 Day 23 Year 93

Nation U.S.A.

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American Society for Testing & Materials  
1916 Race Street  
Philadelphia, PA 19103-1187

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DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work, complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates.

1992 Annual Book of ASTM Standards, Section II, Volume 11.02

b. Material Added to Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.

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CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Att/Comp/State/Zip

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA

19103-1187

Area Code &amp; Telephone Number 215-299-5431

CERTIFICATION I, the undersigned, hereby certify that I am the

Check one

☐ author

☐ author copyright claimant

☐ owner of exclusive rights

☒ authorized agent of American Society for Testing and Materials

Name of author or other copyright claimant or owner of exclusive rights: A

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date

5/27/92



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will be  
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envelope

Name	Kathe Hooper, ASTM
Number/Street Apartment Number	1916 Race Street
City/State/ZIP	Philadelphia, PA 19103-1187

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See your application in space 10

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Washington, D.C. 20540

17 U.S.C. 505(a) Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409 or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

Dec 1980-75,000

U.S. GOVERNMENT PRINTING OFFICE 1990-282-170-20005

# **EXHIBIT 98**



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*Marybeth Peters*  
REGISTER OF COPYRIGHTS  
United States of America

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For a Serial  
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### TITLE OF THIS SERIAL ▼

1998 Annual Book of ASTM Standards, Gaseous Fuels; Coal and Coke

Volume ▼	Number ▼	Date on Copies ▼	Frequency of Publication
05.05	05	September 1998	Annual

### PREVIOUS OR ALTERNATIVE TITLES

### NAME OF AUTHOR ▼

a American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☒ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ▼  
Domiciled in ▼ United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work Other: Entire Text

### NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

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Name of Country  
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☐ Collective Work Other:

### NAME OF AUTHOR ▼

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NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other:

3 a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED  
1998 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
Month ▶ September Day ▶ 1 Year ▶ 1998  
United States Nation

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American Society for Testing and Materials  
100 Barr Harbor Drive  
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☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼
a. ☐ This is the first published version of an issue previously registered in unpublished form.b. ☐ This is the first application submitted by this author as copyright claimant.c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼

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DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1997 Annual Book of ASTM Standards, Section 05, Volume 05.05

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

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Name ▼

Account Number ▼

American Society for Testing and Materials

DA078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check only one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of American Society for Testing & Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 9-1-98

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Name ▼

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

100 Barr Harbor Drive

City/State/ZIP ▼

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Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 6-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1999. Please contact the Copyright Office after July 1999 to determine the actual fee schedule.

\*17 U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 408, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

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TITLE OF THIS SERIAL ▼

1994 Annual Book of ASTM Standards: *Textiles (11): D 3333 - Latest*

Volume ▼

*07*

Number ▼

*02*

Date on Copies ▼

*November*

Frequency of Publication ▼

**Annual**

PREVIOUS OR ALTERNATIVE TITLES ▼

NAME OF AUTHOR ▼

*American Society for Testing and Materials*

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"? ☒ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR { Citizen of *United States*  
Domiciled in *United States*

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other:

**Entire Text**

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE

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OR { Citizen of *United States*  
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Other:

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DATES OF BIRTH AND DEATH

Year Born ▼

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☐ Collective Work

Other:

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

**1994** Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published.

Month *January* Day *19* Year *1995*  
**U.S.A.** Nation

COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼

**American Society for Testing & Materials**  
**1916 Race Street**  
**Philadelphia, PA 19103-1187**

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. ▼

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 b. ☐ This is the first application submitted by this author as copyright claimant.

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Year of Re-registration ▼

TX# 3-735-602

1993

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a & 6b for a derivative work; complete only 6b for a compilation.

 a. **Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1993 Annual Book of ASTM Standards, Section 07, Volume 02.

 b. **Material Added to This Work** Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼  
**Compilation of previous published text plus additional text.**

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this space.

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 Name ▼ Account Number ▼

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code &amp; Telephone Number ▶ 215-299-5431

 Be sure to  
give your  
daytime phone  
number

**CERTIFICATION\*** I, the undersigned, hereby certify that I am the

Check one ▶

☐ author

☐ other copyright claimant

☐ owner of exclusive right(s)

☒ authorized agent of American Society

for Testing and Materials

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶

January 19, 1995



Handwritten signature (X) ▼

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CATE TO**

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window  
envelope

Name ▼	Kathe Hooper, ASTM
Number Street Apartment Number ▼	1916 Race Street
City State ZIP ▼	Philadelphia, PA 19103-1187

 • Complete all necessary spaces  
• Sign your application in space 10

 1. Application form  
2. Nonrefundable \$20 filing fee  
in check or money order  
payable to Register of Copyrights  
3. Deposit material

 Register of Copyrights  
Library of Congress  
Washington, D.C. 20559

\* 17 U.S.C. § 506(e). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

December 1990—75,000

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# **EXHIBIT 100**

**FORM SE**For a Serial  
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REGISTRATION NUMBER



TX 4-951-512



10866972



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AUG - 9 1999

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1  
TITLE OF THIS SERIAL ▼

1999 Annual Book of ASTM Standards, Plastics (III): D 4329 - latest

Volume	Number ▼	Date on Copies ▼	Frequency of Publication ▼
08.03	08	July 1999	Annual

## PREVIOUS OR ALTERNATIVE TITLES ▼

2  
a NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born Year Died ▼Was this contribution to the work a  
"work made for hire"?  
☒ Yes  
☐ No

## AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR { Citizen of ▶

Domiciled in ▶ United States

## WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ NoPseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other: Entire Text

## NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year DiedWas this contribution to the work a  
"work made for hire"?  
☐ Yes  
☐ No

## AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR { Citizen of ▶

Domiciled in ▶

## WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ NoPseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other:

## NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼Was this contribution to the work a  
"work made for hire"?  
☐ Yes  
☐ No

## AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR { Citizen of ▶

Domiciled in ▶

## WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ NoPseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work Other:3  
a YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1999 Year

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## DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information

Month ▶

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American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

APPLICATION RECEIVED

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• See detailed instructions.

• Sign the form at line 10.

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Page 1 of pages

## NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank.

EXAMINED BY

FORM SE

CHECKED BY

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 a. ☐ This is the first published version of an issue previously registered in unpublished form.

 b. ☐ This is the first application submitted by this author as copyright claimant.

 c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼

Year of Registration ▼

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1998 Annual Book of ASTM Standards, Section 08, Volume 08.03

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

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 See instructions  
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Name ▼

Account Number ▼

American Society for Testing and Materials

DA078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check only one ▶

- ☐
- author
- 
- ☐
- other copyright claimant
- 
- ☐
- owner of exclusive right(s)
- 
- ☒
- authorized agent of

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

 American Society for Testing & Materials  
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Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 8-3-99

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Name ▼

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Number/Street/Apartment Number ▼

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## YOU MUST

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 SEND ALL 3 ELEMENTS  
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2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
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## MAIL TO

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# **EXHIBIT 101**

# CERTIFICATE OF REGISTRATION

**FORM SE**  
UNITED STATES COPYRIGHT OFFICE



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

*Marybeth Peters*

REGISTER OF COPYRIGHTS  
United States of America

REGISTRATION NUMBER

TX 4-248-138



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TITLE OF THIS SERIAL ▼

1996 Annual Book of ASTM Standards: *Petroleum Products, Lubricants and Fossil Fuels*

Volume ▼

05

Number ▼

03

Date on Copies ▼

March '96

Frequency of Publication ▼

Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2 NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"? ☒ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country

OR { Citizen of ☐ ☒ Domiciled in ☐ ☒ United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work ☒ Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country

OR { Citizen of ☐ ☐ Domiciled in ☐ ☐

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NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country

OR { Citizen of ☐ ☐ Domiciled in ☐ ☐

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NATURE OF AUTHORSHIP

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Month ☒ March Day ☒ 21 Year ☒ 1996

U.S.A.

Nation

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American Society for Testing & Materials  
1916 Race Street  
Philadelphia, PA 19103-1187

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Page 1 of 2 pages

NOTE  
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work is the

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TX# 4-009-509

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a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1995 Annual Book of ASTM Standards, Section 25, Volume 13.

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Name ▼ American Society for Testing and Materials

Account Number ▼

DA078328

CORRESPONDENCE

Give name and address to which correspondence about this application should be sent. Name Address Apt City State Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA

19103-1187

Area Code &amp; Telephone Number ▶ 215-299-5431

Be sure to  
give your  
daytime phone  
number

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check one ▶

☐ author

☐ other copyright claimant

☐ owner of exclusive right(s)

☒ authorized agent of American Society for Testing and Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶

March 21, 1996

Handwritten signature (X) ▼

Name ▼

Kathe Hooper, ASTM

Number Street Apartment Number ▼

1916 Race Street

City State ZIP ▼

Philadelphia, PA 19103-1187

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December 1990—75,000

U.S. GOVERNMENT PRINTING OFFICE: 1990—282-170 20 005

# **EXHIBIT 102**



# CERTIFICATE OF COPYRIGHT REGISTRATION



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*[Signature]*

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United States of America

FORM SE  
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

IX 2-697-913

EFFECTIVE DATE OF REGISTRATION

NOV 09 1989

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Volume

Number

Date on Copies

Frequency of Publication

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05.05

OCTOBER 1989

ANNUAL

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NAME OF AUTHOR

DATES OF BIRTH AND DEATH  
Year Born Year Died

a American Society for Testing and Materials

Was this contribution to the work a "work made for hire"?

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☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR Citizen of United States  
Domiciled in

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work ☐ Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH  
Year Born Year Died

Was this contribution to the work a "work made for hire"?

☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR Citizen of  
Domiciled in

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☐ Collective Work ☐ Other:

NAME OF AUTHOR

DATES OF BIRTH AND DEATH  
Year Born Year Died

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☐ No

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Name of Country

OR Citizen of  
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Pseudonymous? ☐ Yes ☐ No

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NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed.

☐ Collective Work ☐ Other:

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U.S.A. Nation

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Philadelphia, PA 19103

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If your answer is "Yes," give: Previous Registration Number ▼

Year of Registration ▼

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DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1988 Annual Book of ASTM Standards, Section 05 Volume 05

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

Compilation of previous published text plus additional text.

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Places of Manufacture ▼

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Easton, MD

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a. ☒ Copies and Phonorecordsb. ☐ Copies Onlyc. ☐ Phonorecords Only

See instructions.

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ▼

Account Number ▼

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

R. L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103

Area Code &amp; Telephone Number ▶

(215) 299-5431

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s) American Society☒ authorized agent of for Testing and Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this is a published work, this date must be the same as or later than the date of publication given in space 3.

Robert L. Meltzer

date ▶

10/23/89

Handwritten signature ▼

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will be  
mailed in  
window  
envelope

Name ▼

Kathleen M. Hooper

Number/Street/Apartment Number ▼

ASTM, 1916 Race Street

City/State/ZIP ▼

Philadelphia, PA 19103

Have you:

- Completed all necessary spaces?
- Signed your application in space 10?
- Enclosed check or money order for \$10 payable to Register of Copyrights?
- Enclosed your deposit material with the application and fee?

MAIL TO: Register of Copyrights,  
Library of Congress, Washington,  
D.C. 20559.

\* 17 U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

# **EXHIBIT 103**

## Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth  
in the attached have been made a part of the  
records of the Copyright Office with claim  
of copyright registered under number

In testimony whereof, the seal of this office  
is affixed hereto on



**TX 3-614-549**

**October 1, 2019**

*Kary A. Lush*

United States Register of Copyrights and Director



**FORM SE**  
UNITED STATES COPYRIGHT OFFICE  
REGISTRATION NUMBER

11 3 614 549

U  
EFFECTIVE DATE OF REGISTRATION  
**OCT 18 1993**

Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**1**  
TITLE OF THIS SERIAL **▼**  
1993 Annual Book of ASTM Standards: *Grassous Fuels; Coal and Coke*

Volume **▼** *0505* Number **▼** *05* Date on Copies **▼** *September* Frequency of Publication **▼** *Annual*  
PREVIOUS OR ALTERNATIVE TITLES **▼**

**2**  
NAME OF AUTHOR **▼**  
**a** American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born **▼** Year Died **▼**

Was this contribution to the work a "work made for hire"? ☒ Yes ☐ No  
AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country **▼**  
OR Citizen of **▼** *United States*  
Domiciled in **▼**

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes" see detailed instructions.

NATURE OF AUTHORSHIP **▼** Briefly describe nature of the material created by this author in which copyright is claimed. **▼**  
☐ Collective Work Other: *Entire Text*

NAME OF AUTHOR **▼**

DATES OF BIRTH AND DEATH  
Year Born **▼** Year Died **▼**

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No  
AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country **▼**  
OR Citizen of **▼**  
Domiciled in **▼**

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes" see detailed instructions.

NATURE OF AUTHORSHIP **▼** Briefly describe nature of the material created by this author in which copyright is claimed. **▼**  
☐ Collective Work Other:

NAME OF AUTHOR **▼**

DATES OF BIRTH AND DEATH  
Year Born **▼** Year Died **▼**

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No  
AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country **▼**  
OR Citizen of **▼**  
Domiciled in **▼**

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes" see detailed instructions.

NATURE OF AUTHORSHIP **▼** Briefly describe nature of the material created by this author in which copyright is claimed. **▼**  
☐ Collective Work Other:

**3**  
YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED **▼**  
*1993*

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
Month *August* Day *30* Year *1993*  
U.S.A.

**4**  
COPYRIGHT CLAIMANT'S Name and address must be given even if the claimant is the same as the author given in space 2. **▼**

American Society for Testing & Materials  
1916 Race Street  
Philadelphia, PA 19103-1187

APPLICATION RECEIVED  
**OCT 18 1993**  
ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED  
**OCT 18 1993**

REMITTANCE NUMBER AND DATE

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. **▼**

MORE ON BACK **▼**  
• Complete all applicable spaces (numbers 5-11) on the reverse side of this page.  
• See detailed instructions.  
• Sign the form at line 10.

DO NOT WRITE HERE  
Page 1 of 2 pages



TX 3 614 549

EXAMINED BY

KLO

FORM SE

CHECKED BY

4

☐ CORRESPONDENCE

yes

FOR  
COPYRIGHT  
OFFICE  
USE  
ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**PREVIOUS REGISTRATION** Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼a. ☐ This is the first published version of an issue previously registered in unpublished formb. ☐ This is the first application submitted by this author as copyright claimant.c. ☐ This is a changed version of this issue, as shown by space 6 on this application

If your answer is "Yes," give Previous Registration Number ▼

TX# 3 467 123

Year of Re-registration ▼

1992

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a & 6b for a derivative work, complete only 6b for a compilation

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates ▼

1992 Annual Book of ASTM Standards, Section 25, Volume 45.

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed ▼

Compilation of previous published text plus additional text.

See instructions  
before completing  
this space

—space deleted—

**REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS**

A signature on this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both

☒ Copies and Phonorecords☐ Copies Only☐ Phonorecords Only

See instructions

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account

Name ▼

Account Number ▼

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent Name/Address/Apt/City/State/Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code &amp; Telephone Number ▶ 215-299-5431

Be sure to  
give your  
daytime phone  
number**CERTIFICATION** I, the undersigned, hereby certify that I am the

Check one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of

American Society

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Name of author or other copyright claimant, or owner of exclusive right(s) ▶

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

Date ▶ September 8, 1993



Handwritten signature (s) ▼

Robert L. Meltzer

MAIL  
CERTIFI-  
CATE TOCertificate  
will be  
mailed in  
window  
envelope

Name ▼

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

1916 Race Street

City/State/ZIP ▼

Philadelphia, PA 19103-1187

• Complete all necessary spaces  
• Sign your application in space 101. Application form  
2. Nonrefundable \$20 filing fee  
in check or money order  
payable to Register of Copyrights  
3. Deposit materialRegister of Copyrights  
Library of Congress  
Washington, D.C. 20540

\* 17 U.S.C. § 508(e) Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409 or in any written statement filed in connection with the application shall be fined not more than \$2,500.

December 1989-75,000

U.S. GOVERNMENT PRINTING OFFICE: 1980-282-170/20,005

# **EXHIBIT 104**

# CERTIFICATE OF REGISTRATION



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

*Marybeth Peters*  
REGISTER OF COPYRIGHTS  
United States of America

**FORM SE**  
For a Serial  
UNITED STATES COPYRIGHT OFFICE

TX 4-394-571



\*TX9804394571\*

EFFECTIVE DATE OF REGISTRATION

12 13 96  
Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

TITLE OF THIS SERIAL ▼

1996 Annual Book of ASTM Standards:

*Textiles*  
*Textiles (11): D3333-latest*

Volume ▼

Number ▼

Date on Copies ▼

Frequency of Publication ▼

07

02

November 1996

Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

2 NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☒ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

Citizen of ▼

Domiciled in ▼

United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of country

Citizen of ▼

Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

Citizen of ▼

Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions

NATURE OF AUTHORSHIP

Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other:

3 YEAR IN WHICH CREATION OF THIS

ISSUE WAS COMPLETED

This information must be given in all cases.

1996 Year

4 DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published.

Month ▼ December Day ▼ 3 Year ▼ 1996

U.S.A.

4 COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼

American Society for Testing & Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

APPLICATION RECEIVED

DEC 13 1996

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TWO DEPOSITS RECEIVED

DEC 13 1996

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TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. ▼

MORE ON BACK ▶

- Complete all applicable spaces (numbers 5-11) on the reverse side of this page
- See detailed instructions
- Sign the form at line 10

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Page 1 of 2 pages

ASTM000065



EXAMINED BY *AWD*

FORM SE

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☐ CORRESPONDENCE  
YesFOR  
COPYRIGHT  
OFFICE  
USE  
ONLY

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PREVIOUS REGISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?

5

X Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼

- a. ☐ This is the first published version of an issue previously registered in unpublished form.  
b. ☐ This is the first application submitted by this author as copyright claimant.  
c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼

Year of Registration ▼

TH#

4-223-732

1996

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work; complete only 6b for a compilation.

6

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1996 Annual Book of ASTM Standards, Section 07, Volume 03.

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼  
Compilation of previous published text plus additional text.See instructions  
before completing  
this space

—space deleted—

7

REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS

A signature on this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols); or (2) phonorecords embodying a fixation of a reading of that work; or (3) both.

a ☒ Copies and Phonorecordsb ☐ Copies Onlyc ☐ Phonorecords Only

See instructions

8

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ▼ American Society for  
Testing and Materials

Account Number ▼

# DA078328

9

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name: Address: Apt City: State: Zip ▼

Robert L. Meltzer, ASTM

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▼ 610-832-9632

Be sure to  
give your  
daytime phone  
number

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent ofAmerican Society  
for Testing and Materialsof the work identified in this application and that the statements made  
by me in this application are correct to the best of my knowledge.

Name of author or other copyright claimant, or owner of exclusive right(s) ▼

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date

December 3, 1996

10

Handwritten signature (X) ▼

*Robert L. Meltzer*MAIL  
CERTIFI-  
CATE TOCertificate  
will be  
mailed in  
window  
envelope

Name ▼

Judy Helm, ASTM

Number Street Apartment Number ▼

100 Barr Harbor Drive

City State ZIP ▼

West Conshohocken, PA 19428-2959

## YOU MUST

- Complete all necessary spaces
- Sign your application in space 10

SEND ALL ELEMENTS  
IN THE SAME PACKAGE

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

MAIL TO  
Register of Copyrights  
Library of Congress  
Washington, D.C. 20559Copyright fees are ad-  
justed at 5-year inter-  
vals, based on in-  
creases or decreases in  
the Consumer Price In-  
dex. The next adjust-  
ment is due in 1995.  
Contact the Copyright  
Office in January 1995  
for the new fee sched-  
ule.

11

\* 17 U.S.C. § 506(a). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409 or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

June 1992—50,000

U.S. GOVERNMENT PRINTING OFFICE: 1992—312-432/60,002

ASTM000066

# **EXHIBIT 105**

**FORM SE**For a Serial  
UNITED STATES COPYRIGHT OFFICE  
REGISTRATION NUMBER

101885578



TX 4-787-691



EFFECTIVE DATE OF REGISTRATION

10 14 98  
Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

## 1 TITLE OF THIS SERIAL ▼

1998 Annual Book of ASTM Standards, Atmospheric Analysis; Occupational Health and Safety; Protective Clothing

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
11.03	11	October 1998	Annual

PREVIOUS OR ALTERNATIVE TITLES ▼

## 2 a NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born Year Died ▼Was this contribution to the work a  
"work made for hire"?  
☒ Yes  
☐ NoAUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of  
Domiciled in United StatesWAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other: Entire Text

## NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼Was this contribution to the work a  
"work made for hire"?  
☐ Yes  
☐ NoAUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of  
Domiciled inWAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK  
Anonymous? ☐ Yes ☐ No  
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☐ Collective Work Other:

## NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year DiedWas this contribution to the work a  
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☐ Yes  
☐ NoAUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of  
Domiciled inWAS THIS AUTHOR'S CONTRIBUTION TO  
THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼

☐ Collective Work Other:3 a YEAR IN WHICH CREATION OF THIS  
ISSUE WAS COMPLETED

1998 Year

This information  
must be given  
in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information  
ONLY if this work  
has been published.Month October Day 1 Year 1998  
United States NationCOPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the  
same as the author given in space 2. ▼American Society for Testing and Materials  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named  
in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.

APPLICATION RECEIVED

OCT. 14. 1998

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TWO DEPOSITS RECEIVED

OCT. 14. 1998

REMITTANCE NUMBER AND DATE

MORE ON BACK ▶

• Complete all applicable spaces (numbers 5-11) on the reverse side of this page.  
• See detailed instructions. • Sign the form at line 10.DO NOT WRITE HERE  
Page 1 of 2 pages

## NOTE

Under the law,  
the "author" of a  
"work made for  
hire" is generally  
the employer,  
not the em-  
ployee (see in-  
structions). For  
any part of this  
work that was  
"made for hire"  
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the space pro-  
vided, give the  
employer (or  
other person for  
whom the work  
was prepared)  
as "Author" of  
that part, and  
leave the space  
for dates of birth  
and death blankSee instructions  
before completing  
this space

EXAMINED BY

FORM SE

CHECKED BY

☐ CORRESPONDENCE  
Yes

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PREVIOUS REGISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?

☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼

- a. ☐ This is the first published version of an issue previously registered in unpublished form.
- b. ☐ This is the first application submitted by this author as copyright claimant.
- c. ☐ This is a changed version of this issue, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼ Year of Registration

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work; complete only 6b for a compilation.

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1997 Annual Book of ASTM Standards, Section 11, Volume 11.03

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

Compilation of previous published text plus additional text.

---space deleted---

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- a. ☒ Copies and Phonorecords
- b. ☐ Copies Only
- c. ☐ Phonorecords Only

See instructions.

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ▼

Account Number ▼

American Society for Testing and Materials

DA078328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent.

Name/Address/Apt/City/State/ZIP

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

Area Code &amp; Telephone Number ▶ (610) 832-9634

CERTIFICATION\* I, the undersigned, hereby certify that I am the

- Check only one ▶
- ☐ author
  - ☐ other copyright claimant
  - ☐ owner of exclusive right(s)
  - ☒ authorized agent of American Society for Testing & Materials

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date ▶ 10-1-98

Handwritten signature (X) ▼

MAIL  
CERTIFICATE  
TOCertificate  
will be  
mailed in  
window  
envelope

Name ▼

Kathe Hooper, ASTM

Number/Street/Apartment Number

100 Barr Harbor Drive

City/State/ZIP ▼

West Conshohocken, PA 19428-2959

FOOTNOTES

- \* Complete all necessary spaces.
- \* Sign your application in space 10.

SEE INSTRUCTIONS

1. Application form
2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
3. Deposit material

 Register of Copyrights  
Library of Congress  
Washington, D.C. 20559

The Copyright Office has the authority to adjust fees at 5-year intervals, based on changes in the Consumer Price Index. The next adjustment is due in 1998. Please contact the Copyright Office after July 1998 to determine the actual fee schedule.

\*17 U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.



# **EXHIBIT 106**

# CERTIFICATE OF REGISTRATION



OFFICIAL SEAL

This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

*Marybeth Peters*

REGISTER OF COPYRIGHTS

## FORM SE

For a Serial  
UNITED STATES COPYRIGHT OFFICE

TX 5-202-199



#1-0005202199#

EFFECTIVE DATE OF REGISTRATION

11 13 00

Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

1

TITLE OF THIS SERIAL ▼

2000 ANNUAL BOOK OF ASTM STANDARDS, ATMOSPHERIC ANALYSIS; OCCUPATIONAL Health and Safety; Protective Clothing

Volume ▼

Number ▼

Date on Copies ▼

Frequency of Publication ▼

11.03

11

October 2000

ANNUAL

PREVIOUS OR ALTERNATIVE TITLES ▼

2

NAME OF AUTHOR ▼

American Society for Testing and Materials

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"?

☒ Yes

☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR ☐ Citizen of ▼

☐ Domiciled in ▼ United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other: Entire Text

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"?

☐ Yes

☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR ☐ Citizen of ▼

☐ Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH

Year Born ▼

Year Died ▼

Was this contribution to the work a "work made for hire"?

☐ Yes

☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR ☐ Citizen of ▼

☐ Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK

Anonymous? ☐ Yes ☐ No

Pseudonymous? ☐ Yes ☐ No

If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP

Briefly describe nature of material created by this author in which copyright is claimed. ▼

☐ Collective Work

Other:

## NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank.

3

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

2000

This information must be given in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published.

Month ▼ 10 Day ▼ 6 Year ▼ 2000

United States

Nation

4

COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼

American Society for Testing and Materials

100 BARR HARBOR DRIVE

West Conshohocken, PA 19428-2959

TRANSFER If the claimant(s) named here in space 4 is (are) different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. ▼

APPLICATION RECEIVED

NOV 13 2000

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

NOV 13 2000

FUNDS RECEIVED

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• Complete all applicable spaces (numbers 5-9) on the reverse side of this page.  
• See detailed instructions.

• Sign the form at line 8.

DO NOT WRITE HERE

Page 1 of 2 pages

ASTM000125

EXAMINED BY <u>                    </u>	FORM SE
CHECKED BY <u>                    </u>	
<input type="checkbox"/> CORRESPONDENCE	FOR
Yes	COPYRIGHT
	OFFICE
	USE
	ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**PREVIOUS REGISTRATION** Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office?

☐ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box.) ▼

a. ☐ This is the first published edition of a work previously registered in unpublished form.

b. ☐ This is the first application submitted by this author as copyright claimant.

c. ☐ This is a changed version of the work, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼

Year of Registration ▼

5

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a and 6b for a derivative work; complete only 6b for a compilation.

**Preexisting Material** Identify any preexisting work or works that this work is based on or incorporates. ▼

1999 Annual Book of ASTM Standards, Volume 11.02, Section 11

a

6

**Material Added to This Work** Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

Compilation of previous published text plus additional text.

b

See instructions before completing this space.

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ▼

Account Number ▼

American Society for Testing and Materials

DA078328

a

7

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP ▼

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

b

Area code and daytime telephone number ▶ 610-832-9634

Fax number ▶ 610-832-9635

Email ▶ khooper@astm.org

**CERTIFICATION** I, the undersigned, hereby certify that I am the

Check only one ▶

☐ author

☐ other copyright claimant

☐ owner of exclusive right(s)

☒ authorized agent of American Society for Testing and Materials

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

8

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

Date ▶ 10/27/00

Handwritten signature (X) ▼

X Robert L. Meltzer

Certificate will be mailed in window envelope to this address:

Name ▼

Kathe Hooper, ASTM

Number/Street/Apt ▼

100 Barr Harbor Drive

City/State/ZIP ▼

West Conshohocken, PA 19428-2959

• Complete all necessary spaces  
• Sign your application in space 8

1. Application form  
2. Nonrefundable filing fee in check or money order payable to Register of Copyrights  
3. Deposit material

Library of Congress  
Copyright Office  
101 Independence Avenue, S.E.  
Washington, D.C. 20559-6000

9

As of July 1, 1999, the filing fee for Form SE is \$38.

\*17 U.S.C. § 506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 405, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.  
June 1999—50,000  
WEB REV. June 1999

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U.S. GOVERNMENT PRINTING OFFICE: 1999-454-879/60

ASTM000126

# **EXHIBIT 107**



# CERTIFICATE OF REGISTRATION



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

*Marybeth Peters*

**FORM SE**

For a Serial  
UNIT

REGI

TX 5-369-432



#TX0005369432#

U

EFFECTIVE DATE OF REGISTRATION

07 02 2001  
Month Day Year

OFFICIAL SEAL

REGISTER OF COPYRIGHTS

CONTINUATION SHEET.

**1** TITLE OF THIS SERIAL ▼ 2001 ANNUAL BOOK OF ASTM STANDARDS: WATER (11)

Volume ▼ Number ▼ Date on Copies ▼ Frequency of Publication ▼  
11.02 11 MAY 2001 ANNUAL

PREVIOUS OR ALTERNATIVE TITLES ▼

**2 a** NAME OF AUTHOR ▼  
American Society for Testing and Materials

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ►  
Domiciled in ► United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other: Entire Test

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ►  
Domiciled in ►

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other:

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?  
☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ►  
Domiciled in ►

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No  
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other:

**3 a** YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED  
2001

This information must be given in all cases.

**b** DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
Month ► May Day ► 18 Year ► 2001  
United States

Nation

**4** COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼  
American Society for Testing and Materials  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

TRANSFER If the claimant(s) named here in space 4 is (are) different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. ▼

APPLICATION RECEIVED

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TWO DEPOSITS RECEIVED

JUL 02 2001

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• Complete all applicable spaces (numbers 5-9) on the reverse side of this page.  
• See detailed instructions.  
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Page 1 of 2 pages

ASTM000131

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FORM SE

CHECKED BY

CORRESPONDENCE

Yes

FOR  
COPYRIGHT  
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USE  
ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

PREVIOUS REGISTRATION Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office?

Yes ☐ No ☐ If your answer is "Yes," why is another registration being sought? (Check appropriate box.)

] This is the first published edition of a work previously registered in unpublished form.

] This is the first application submitted by this author as copyright claimant.

] This is a changed version of the work, as shown by space 6 on this application.

our answer is "Yes," give: Previous Registration Number

Year of Registration

DERIVATIVE WORK OR COMPILATION Complete both space 6a and 6b for a derivative work; complete only 6b for a compilation.  
existing Material Identify any preexisting work or works that this work is based on or incorporates.

1000 Annual Book of ASTM Standards, Section 11 Volume 11.02

a

6

See instructions  
before completing  
this space.

Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed.

Compilation of previous published text plus additional text.

b

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.  
name Account Number

American Society for Testing and Materials

DA078328

a

7

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP

Kathe Hooper, American Society for Testing and Materials

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

b

on code and daytime telephone number 610-832-9634

Fax number

610-832-9635

e-mail khooper@astm.org

CERTIFICATION I, the undersigned, hereby certify that I am the

Check only one

☐ author☐ other copyright claimant☐ owner of exclusive right(s)☒ authorized agent of American Society for Testing and Materials

Name of author or other copyright claimant, or owner of exclusive right(s)

If the work identified in this application and that the statements made  
by me in this application are correct to the best of my knowledge.

typed or printed name and date If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

Date

6/20/01

Handwritten signature (X)

X Certificate  
will be  
mailed in  
window  
envelope  
to this  
address:

Name

Kathe Hooper, ASTM

Number/Street/Apt

100 Barr Harbor Drive

City/State/ZIP

West Conshohocken, PA 19428-2959

TIPS

- Complete all necessary spaces
- Sign your application in space 8

1. Application form  
2. Nonrefundable filing fee in check or money order, payable to Register of Copyrights  
3. Deposit material

Library of Congress  
Copyright Office  
101 Independence Avenue, S.E.  
Washington, D.C. 20569-6000

9

As of  
July 1,  
1999,  
the  
filing  
fee for  
Form SE  
is \$30.

17 U.S.C. § 605(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 408, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

June 1998—50,000  
NBS REV. June 1998

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U.S. GOVERNMENT PRINTING OFFICE: 1999-454-879/60

ASTM000132

# **EXHIBIT 108**

# CERTIFICATE OF REGISTRATION



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

**FORM SE**  
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 4-143-803



#TX8804143803#

*Marybeth Peters*

REGISTER OF COPYRIGHTS  
United States of America

EFFECTIVE DATE OF REGISTRATION

**AUG 01 1995**

Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**1** TITLE OF THIS SERIAL ▼  
**1995 Annual Book of ASTM Standards: General Methods and Instrumentation**  
*General Test Methods, Nonmetallic; Chromatography, Separability of; Nonmetallic Materials; Forensic Sciences; Laboratory Apparatus, Methods.*

Volume ▼ **14** Number ▼ **02** Date on Copies ▼ **June 1995** Frequency of Publication ▼ **Annual**

PREVIOUS OR ALTERNATIVE TITLES ▼

**2** NAME OF AUTHOR ▼  
**American Society for Testing and Materials**

DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

**NOTE**  
Under the law,

Was this contribution to the work a "work made for hire"? ☒ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ▼ Domiciled in ▼ **United States**

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other: **Entire Text**

NAME OF AUTHOR ▼ DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ▼ Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other:

NAME OF AUTHOR ▼ DATES OF BIRTH AND DEATH  
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No

AUTHOR'S NATIONALITY OR DOMICILE  
Name of Country  
OR { Citizen of ▼ Domiciled in ▼

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK  
Anonymous? ☐ Yes ☐ No  
Pseudonymous? ☐ Yes ☐ No

NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in which copyright is claimed. ▼  
☐ Collective Work Other:

**3** YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED This information must be given in all cases. **1995** Year

**4** DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
Complete this information ONLY if this work has been published. Month **June** Day **03** Year **1995** U.S.A. Nation

**4** COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼  
**American Society for Testing & Materials**  
**1916 Race Street**  
**Philadelphia, PA 19103-1187**

TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. ▼

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**AUG 01 1995**

REMITTANCE NUMBER AND DATE

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- Complete all applicable spaces (numbers 5-11) on the reverse side of this page
- See detailed instructions
- Sign the form at line 10

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Page 1 of 2 pages

ASTM000051



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FORM SE

CHECKED BY

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PREVIOUS REGISTRATION Has registration for this issue, or for an earlier version of this particular issue, already been made in the Copyright Office?

☒ Yes ☐ No If your answer is "Yes," why is another registration being sought? (Check appropriate box) ▼
a. ☐ This is the first published version of an issue previously registered in unpublished formb. ☐ This is the first application submitted by this author as copyright claimantc. ☐ This is a changed version of this issue, as shown by space 6 on this application

If your answer is "Yes," give: Previous Registration Number ▼

TX# 3-890-1675

Year of Registration ▼

1994

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 6b for a derivative work, complete only 6b for a compilation

a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

1994 Annual Book of ASTM Standards, Section 14, Volume 02.

b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼  
Compilation of previous published text plus additional text.See instructions  
before completing  
this space

—space deleted—

REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS

A signature on this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols), or (2) phonorecords embodying a fixation of a reading of that work; or (3) both.

☒ Copies and Phonorecords

☐ Copies Only

☐ Phonorecords Only

See instructions

DEPOSIT ACCOUNT

If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name American Society of Testing and Materials

Account Number ▼

#DA 07R328

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name Address Apt City State Zip ▼

Robert L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103-1187

Area Code &amp; Telephone Number ▶ 215-299-5431

Be sure to  
give your  
daytime phone  
number

CERTIFICATION\* I, the undersigned, hereby certify that I am the

Check one ▶

☐ author

☐ other copyright claimant

☐ owner of exclusive right(s)

☒ authorized agent of American Society

Name of author or other copyright claimant, or owner of exclusive right(s) ▶

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Robert L. Meltzer

date

July 26, 1995

Handwritten signature (X) ▼

MAIL  
CERTIFI-  
CATE TOCertificate  
will be  
mailed in  
window  
envelope

Name ▼

Kathe Hooper, ASTM

Number Street Apartment Number ▼

1916 Race Street

City State ZIP ▼

Philadelphia, PA 19103-1187

• Complete all necessary spaces  
• Sign your application in space 10

1. Application form  
2. Nonrefundable \$20 filing fee  
in check or money order  
payable to Register of Copyrights  
3. Deposit material

Register of Copyrights  
Library of Congress  
Washington, D.C. 20559

\* 17 U.S.C. § 506(e). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

December 1990—75,000

☆U.S. GOVERNMENT PRINTING OFFICE: 1990—282-170-20,005

ASTM000052

# **EXHIBIT 109**

## Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth  
in the attached have been made a part of the  
records of the Copyright Office with claim  
of copyright registered under number

In testimony whereof, the seal of this office  
is affixed hereto on



**TX 988-070**

**October 2, 2019**

*Kay A. Leahy*

United States Register of Copyrights and Director



# FORM TX

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER	
TX	TXU
988-070	
EFFECTIVE DATE OF REGISTRATION	
10 (Month)	6 (Day)
82 (Year)	

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE CONTINUATION SHEET (FORM TX/CON)

1 Title	<b>TITLE OF THIS WORK:</b> 1982 Annual Book of ASTM Standards Part 10: Metals-Physical, Mechanical, Corrosion Testing	<b>PREVIOUS OR ALTERNATIVE TITLES:</b>
	If a periodical or serial give Vol No Issue Date	
	<b>PUBLICATION AS A CONTRIBUTION:</b> (If this work was published as a contribution to a periodical, serial, or collection give information about the collective work in which the contribution appeared.)	
	Title of Collective Work	Vol No Date Pages

2 Author(s)	<b>IMPORTANT:</b> Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). If any part of this work was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates blank.		
	1	<b>NAME OF AUTHOR:</b> American Society for Testing and Materials	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		Was this author's contribution to the work a "work made for hire"? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		<b>AUTHOR'S NATIONALITY OR DOMICILE:</b> Citizen of (Name of Country) } or { Domiciled in U.S.A. (Name of Country)	<b>WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK:</b> Anonymous? Yes No Pseudonymous? Yes No If the answer to either of these questions is "Yes," see detailed instructions attached.
		<b>AUTHOR OF:</b> (Briefly describe nature of this author's contribution) Entire Text	
	2	<b>NAME OF AUTHOR:</b>	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		Was this author's contribution to the work a "work made for hire"? Yes No	
		<b>AUTHOR'S NATIONALITY OR DOMICILE:</b> Citizen of (Name of Country) } or { Domiciled in (Name of Country)	<b>WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK:</b> Anonymous? Yes No Pseudonymous? Yes No If the answer to either of these questions is "Yes," see detailed instructions attached.
		<b>AUTHOR OF:</b> (Briefly describe nature of this author's contribution)	
	3	<b>NAME OF AUTHOR:</b>	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		Was this author's contribution to the work a "work made for hire"? Yes No	
		<b>AUTHOR'S NATIONALITY OR DOMICILE:</b> Citizen of (Name of Country) } or { Domiciled in (Name of Country)	<b>WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK:</b> Anonymous? Yes No Pseudonymous? Yes No If the answer to either of these questions is "Yes," see detailed instructions attached.
	<b>AUTHOR OF:</b> (Briefly describe nature of this author's contribution)		

3 Creation and Publication	<b>YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED:</b> Year 1982 (This information must be given in all cases.)	<b>DATE AND NATION OF FIRST PUBLICATION:</b> Date August 10, 1982 (Month) (Day) (Year) Nation United States (Name of Country) (Complete this block ONLY if this work has been published.)
-------------------------------	--	--

4 Claimant(s)	<b>NAME(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S):</b> American Society for Testing and Materials 1916 Race Street Philadelphia, PA 19103
	<b>TRANSFER:</b> (If the copyright claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright.)

• Complete all applicable spaces (numbers 5-11) on the reverse side of this page  
• Follow detailed instructions attached • Sign the form at line 10



TX 988-070	EXAMINED BY: <u>JE</u>	APPLICATION RECEIVED: 06 OCT 1982	FOR COPYRIGHT OFFICE USE ONLY
	CHECKED BY: <u>JE</u>	DEPOSIT RECEIVED: 06 OCT 1982 06 OCT 1982	
	CORRESPONDENCE <input type="checkbox"/> Yes	REMITTANCE NUMBER AND DATE 04691 OCT 6 82	
DEPOSIT ACCOUNT FUNDS USED <input type="checkbox"/>			

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**PREVIOUS REGISTRATION:**

- Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office? Yes ☒ No
- If your answer is "Yes," why is another registration being sought? (Check appropriate box)
  - ☐ This is the first published edition of a work previously registered in unpublished form
  - ☐ This is the first application submitted by this author as copyright claimant
  - ☐ This is a changed version of the work, as shown by line 6 of this application
- If your answer is "Yes," give: Previous Registration Number TX 814-684 Year of Registration 1982

**5**  
Previous  
Registration

**COMPILATION OR DERIVATIVE WORK:** (See instructions)

PREEXISTING MATERIAL (Identify any preexisting work or works that this work is based on or incorporates)

{ 1981 Annual Book of ASTM Standards Part 10

MATERIAL ADDED TO THIS WORK: (Give a brief, general statement of the material that has been added to this work and in which copyright is claimed)

{ Compilation of previously published text plus additional text

**6**  
Compilation  
or  
Derivative  
Work

**MANUFACTURERS AND LOCATIONS:** (If this is a published work consisting preponderantly of nondramatic literary material in English, the law may require that the copies be manufactured in the United States or Canada for full protection. If so, the names of the manufacturers who performed certain processes, and the places where these processes were performed must be given. See instructions for details.)

NAMES OF MANUFACTURERS

Waverly Press, Inc.

PLACES OF MANUFACTURE

Easton, MD

**7**  
Manufacturing

**REPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDICAPPED PERSONS:** (See instructions)

- Signature of this form at space 10, and a check in one of the boxes here in space 8, constitutes a non-exclusive grant of permission to the Library of Congress to reproduce and distribute solely for the blind and physically handicapped and under the conditions and limitations prescribed by the regulations of the Copyright Office: (1) copies of the work identified in space 1 of this application in Braille (or similar tactile symbols), or (2) phonorecords embodying a fixation of a reading of that work; or (3) both

☒ Copies and phonorecords

☐ Copies Only

☐ Phonorecords Only

**8**  
License  
For  
Handicapped

**DEPOSIT ACCOUNT:** (If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.)

Name  
Account Number:

**CORRESPONDENCE:** (Give name and address to which correspondence about this application should be sent.)

Name: Robert L. Meltzer, ASTM  
Address: 1916 Race Street  
Philadelphia, PA 19103 (Apt)  
(City) (State) (ZIP)

**9**  
Fee and  
Correspondence

**CERTIFICATION:** \* I, the undersigned, hereby certify that I am the: (Check one) American Society for Testing and

☐ author ☐ other copyright claimant ☐ owner of exclusive right(s) ☒ authorized agent of Materials  
(Name of author or other copyright claimant or owner of exclusive right(s))  
of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge



Handwritten signature: (X) Robert L. Meltzer  
Typed or printed name: Robert L. Meltzer

Date: 9/15/82

**10**  
Certification  
(Application  
must be  
signed)

..... American Society for Testing and Materials .....  
(Name)  
..... 1916 Race Street, 2nd floor, RLM .....  
(Number, Street and Apartment Number)  
..... Philadelphia, PA 19103 .....  
(City) (State) (ZIP code)

**MAIL  
CERTIFICATE  
TO**  
  
(Certificate will  
be mailed in  
window envelope)

**11**  
Address  
For Return  
of  
Certificate