

EXHIBIT 141

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.

[Signature]
REGISTER OF COPYRIGHTS
United States of America

FORM SE
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 3-614-184



EFFECTIVE DATE OF REGISTRATION

8 13 93
Month Day Year

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

TITLE OF THIS SERIAL ▼

1993 Annual Book of ASTM Standards: GENERAL METHODS AND INSTRUMENTATION;
GENERAL TEST METHODS; NON METAL; LABORATORY APPARATUS; STATISTICAL METHODS;
FORENSIC SCIENCE

Volume ▼

14.02

Number ▼

14

Date on Copies ▼

JUNE 1993

Frequency of Publication ▼

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 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 ▼

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Year Born ▼ Year Died ▼

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☐ Collective Work Other:

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1993 Year

This information must be given in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Month Day Year

U.S.A. Nation

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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

AUG 13 1993

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AUG 13 1993

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• Complete all applicable spaces (numbers 5-11) on the reverse side of this page
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Page 1 of 2

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☐ 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 ▼

TX# 3 460 670

Year of 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 14, Volume 14.02

 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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before completing
this space

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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.

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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 ▼

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 & Telephone Number ▶ 215-299-5431

 Write to
your
home 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 ▶

7-7-93

Handwritten signature (X) ▼

Robert L. Meltzer

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CERTIFICATE TO

 Certificate
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.

Author 1980-75,000

EXHIBIT 142

CERTIFICATE OF REGISTRATION



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Marybeth Peters

REGISTER OF COPYRIGHTS
United States of America

FORM SE

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UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 4-654-755



TX0004654755

EFFECTIVE DATE OF REGISTRATION

Month 3 Day 20 Year 98

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TITLE OF THIS SERIAL ▼

1

1998 Annual Book of ASTM Standards, Iron and Steel Products: Ships and Marine Technology

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
01.07	01	* February 1998	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
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 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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OR { Citizen of ►
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Year Born ▼ Year Died ▼

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Domiciled in ►

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YEAR IN WHICH CREATION OF THIS

ISSUE WAS COMPLETED
1998 Year

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Month ► February Day ► 27 Year ► 1998
Nation

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American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2950

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APPLICATION RECEIVED

MAR 20 1998

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*Date on copy is January 1998.

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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. ▼

1997 Annual Book of ASTM Standards, Section 01, Volume 01.07.

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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b. ☐ Copies Only

c. ☐ Phonorecords Only

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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 & Telephone Number ▶ (610) 832-9834

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 ▶ 3-5-98

Handwritten signature (X) ▼

Robert L. Meltzer

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
mailed in
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envelope

• 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 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 1998 to determine the actual fee schedule.

EXHIBIT 143

CERTIFICATE OF REGISTRATION



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Marybeth Peters

REGISTER OF COPYRIGHTS
United States of America

FORM SE
UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 4-029-465



EFFECTIVE DATE OF REGISTRATION

MAR 16 1995

Month Day Year

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TITLE OF THIS SERIAL

1995 Annual Book of ASTM Standards:

Iron & Steel Products

Shipbuilding

Volume

Number

Date on Copies

Frequency of Publications

01

07

January 1995

Annual

PREVIOUS OR ALTERNATIVE TITLES

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

OR { Citizen of United States
Domiciled in United States

DATES OF BIRTH AND DEATH

Year Born Year Died

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

☐ Collective Work ☒ Other:

Entire Text

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

NAME OF AUTHOR

DATES OF BIRTH AND DEATH

Year Born Year Died

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☐ Yes
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

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Domiciled in

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YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1995 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if the work has been published. Month *January* Day *26* Year *1995*

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

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APPLICATION RECEIVED

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Page 1 of 1 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 this part and leave the space for dates of birth and death blank.

3
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☐ CORRESPONDENCE
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- 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# 3-841-004

Year of Re-registration ▼

1994

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. ▼

1994 Annual Book of ASTM Standards, Section 01, Volume 07.

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 ▼

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 & 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) ▼

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CATE TOCertificate
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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

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December 1980—75,000

U.S. GOVERNMENT PRINTING OFFICE: 1980—282-170/20,065

EXHIBIT 144

111463041

**FORM SE**

For a Serial

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 5-058-024



TX0005058024

EFFECTIVE DATE OF REGISTRATION

DEC 27 1999

Month Day Year

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1 TITLE OF THIS SERIAL ▼

1999 Annual Book of ASTM Standards: End Use Products

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
15.07	15	November 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 ☐ No ☐ Yes ☐ No If the answer to either of these questions is "Yes," see detailed instructions.Pseudonymous? ☐ Yes ☐ No instructions.

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

☐ Collective Work Other: Entire Text

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3

a

YEAR IN WHICH CREATION OF THIS

ISSUE WAS COMPLETED This information must be given in all cases. 1999 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published. Month ► Nov Day ► 19 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

DEC 27 1999

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

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.

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1998 Annual Book of ASTM Standards, Section 15, Volume 15.07

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Compilation of previous published text plus additional text.

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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 & 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 ▶ 12-20-99

**MAIL
CERTIFICATE
TO**Certificate
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window
envelope

Name ▼

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

100 Barr Harbor Drive

City/State/ZIP

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• 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. 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 1995 to
determine the actual fee
schedule.

EXHIBIT 145

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 3-114-937

October 2, 2019

Kay A. Leahy

United States Register of Copyrights and Director

FORM SE
UNITED STATES COPYRIGHT OFFICE
REGISTRATION NUMBER

TX 3 114 937

U
EFFECTIVE DATE OF REGISTRATION
JUL 25 1991

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

TITLE OF THIS SERIAL ▼
1991 Annual Book of ASTM Standards: *PLASTICS (III): D3100-1A1E5T*

Volume ▼ Number ▼ Date on Copies ▼ Frequency of Publication ▼
08 0803 MAY 1991 ANNUAL
PREVIOUS OR ALTERNATIVE TITLES ▼

NAME OF AUTHOR ▼ DATES OF BIRTH AND DEATH
a American Society for Testing and Materials Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"? ☒ Yes ☐ No
AUTHOR'S NATIONALITY OR DOMICILE
Citizen of *U.S.* or Domiciled in *U.S.*
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
b Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No
AUTHOR'S NATIONALITY OR DOMICILE
Citizen of *U.S.* or Domiciled in *U.S.*
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
c Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"? ☐ Yes ☐ No
AUTHOR'S NATIONALITY OR DOMICILE
Citizen of *U.S.* or Domiciled in *U.S.*
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 a YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED *1991* b DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR EDITION
1991 *U.S.A.*

4 c COPYRIGHT CLAIMANT'S Name and address must be given even if the claimant is the owner of the author given in space 2.9
*American Society for Testing & Materials
1916 Race Street
Philadelphia, PA 19103-1187*

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

APPLICATION RECEIVED
JUL 25 1991
COPY REPORT RECEIVED
JUL 25 1991
TWO DEPOSITS RECEIVED
JUL 25 1991
RIGHT PRICE PAID AND TIME

NOTE: If you are the author of a work made for hire, you are not the author for copyright purposes. The employer or other person for whom the work was prepared is the author for copyright purposes. If the work is a "work made for hire," check "Yes" in the space provided. If the work was prepared for another person, check "No" in the space provided. If the work was prepared for another person, check "No" in the space provided. If the work was prepared for another person, check "No" in the space provided.

IX 3 114 937

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

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Year of Registration

TX# 2 859 454

1990

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. 1990 Annual Book of ASTM Standards, Section 08, Volume 48.13.

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. Compilation of previous published text plus additional text.

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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 safely 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 reading of that work; or (3) both.

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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:

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

19103-1107

Area Code & 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☒ authorized agent of American Society for Testing and Materials

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

Robert L. Meltzer

6-14-91

MAIL
CERTIFICATE TOCertificate
will be
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address
enclosed

Name:

Kathe Hooper, ASTM

Number/Street Apartment Number:

1916 Race Street

City/State/Zip:

Philadelphia, PA 19103-1107

1. Application
2. Declaration (filling in
in blank or using only
pre-printed language of Copyright
3. Signature required
Library of Congress
Library of Congress
Washington, D.C. 20540

EXHIBIT 146

CERTIFICATE OF REGISTRATION



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Marybeth Peters
REGISTER OF COPYRIGHTS
United States of America

FORM SE
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UNITED STATES COPYRIGHT OFFICE
RE
TX 4-755-309
#TX0004755309#

EFFECTIVE DATE OF REGISTRATION
6 23 98
Month Day Year

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

TITLE OF THIS SERIAL ▼

1998 Annual Book of ASTM Standards, General Test Methods, Monometal, Chromatography, Durability of Nonmetallic Materials, Forensic Sciences, Lab -
WATERY ANALYSIS, STATISTICAL METHODS

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
14.02	14	July	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 ► 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
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YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED

1998 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

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United States Nation

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

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TWO DEPOSITS RECEIVED

JUN 23 1998
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Page 1 of 2 pages

ASTM000083

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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.

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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. ▼

1997 Annual Book of ASTM Standards, Section 14, Volume 14.02.

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. ▼

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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 & 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. Metzger

date ▶ 6-22-98

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Name ▼

Kathe Hooper, ASTM

Number/Street/Apartment Number ▼

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City/State/ZIP

West Conshohocken, PA 19428-2959

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2. Nonrefundable \$20 filing fee in check or money order payable to Register of Copyrights
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Washington, D.C. 20550

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ASTM000084

EXHIBIT 147

CERTIFICATE OF REGISTRATION



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Marybeth Peters

REGISTER OF COPYRIGHTS
United States of America

FORM SE

For a Serial
UNITED STATES COPYRIGHT OFFICE

RE:

TX 5-410-705



TX0005410705

EFFECTIVE DATE OF REGISTRATION

8 27 01
Month Day Year

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1

TITLE OF THIS SERIAL ▼
2001 ANNUAL BOOK OF ASTM STANDARDS: LABORATORY APPARATUS;
DEGRADATION OF MATERIALS; SI; OXYGEN FIRE SAFETY

Volume ▼ Number ▼ Date on Copies ▼ Frequency of Publication ▼
14.04 14 JULY 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

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.

b

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:

c

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.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE
Month ▼ Day ▼ Year ▼
June 16 2001
United States
Nation

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 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
AUG 27 2001
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AUG 27 2001
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Page 1 of 2 pages

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

2000 Annual Book of ASTM Standards, Section 14 Volume 14.04

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.

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 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

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 ▶ 8/24/01

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

YOU MUST

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

SEND ALL ELEMENTS
IN THE SAME PACKAGE

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

MAIL TO

Library of Congress
Copyright Office
101 Independence Avenue, S.E.
Washington, D.C. 20559-6000As of
July 1,
1999,
the
filing
fee for
Form SE
is \$30.

EXHIBIT 148

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 2-567-321

October 1, 2019

A handwritten signature in dark ink, reading "Kay A. Leahy". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

United States Register of Copyrights and Director

FORM SE
UNITED STATES COPYRIGHT OFFICE
REGISTRATION NUMBER

TX 2 567 321

EFFECTIVE DATE OF REGISTRATION

6 2 89
Month Day Year

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1 TITLE OF THIS SERIAL ▼

1989 Annual Book of ASTM Standards, Petroleum Products and
Lubricants (II): D 1949 - D 3601

Volume ▼ Number ▼ Date on Copies ▼ Frequency of Publication ▼
05.02 05 March 1989 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

☐ Collective Work Other:

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

Entire Text

b 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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THE WORK
Anonymous? ☐ Yes ☐ No
Pseudonymous? ☐ Yes ☐ No

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

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☐ Collective Work Other:

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

NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ Year Died ▼

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☐ 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

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

3 4 YEAR IN WHICH CREATION OF THIS
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1989

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in all cases.

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

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has been published.

Month ▼ April Day ▼ 27 Year ▼ 1989

U. S. A.

Nation

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1916 Race Street
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a. Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

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R. L. Meltzer, ASTM

1916 Race Street

Philadelphia, PA 19103

Area Code & Telephone Number ▼

215-299-5431

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

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