

# **EXHIBIT 110**

## 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 3-135-932**

**October 2, 2019**

*Kary A. Lush*

United States Register of Copyrights and Director



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

TI 3 135 932

EFFECTIVE DATE OF REGISTRATION

JUL 23 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: *ELECTRICAL CONDUCTORS*

Volume ▼

02

Number ▼

02.03

Date on Copies ▼

MAY 1991

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 ▼

OR 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

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 ▼

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

☐ Yes  
☐ No

AUTHOR'S NATIONALITY OR DOMICILE

Name of Country

OR Citizen of ▼

OR Domiciled in ▼

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Pseudonymous? ☐ Yes ☐ No

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of these questions is  
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DATES OF BIRTH AND DEATH

Year Born ▼ Year Died ▼

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"work made for hire"?

☐ Yes  
☐ No

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OR Citizen of ▼

OR 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.

NATURE OF AUTHORSHIP

☐ Collective Work ☒ Other

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

YEAR IN WHICH CREATION OF THIS

ISSUE WAS COMPLETED

1991 4 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information

ONLY if the work

has been published.

Month ▼

Day ▼

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 19103-1187

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

JUL 23 1991

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

JUL 23 1991

REMITTANCE NUMBER AND DATE

MORE ON BACK ▶

• Complete at 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 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" on that part, and leave the space for dates of birth and death blank.

3

4

See instructions before completing this space

042550074  
042550074



TX 3 135 932

EXAMINED BY  
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CORRESPONDENCE

FORM 5E

FOR  
COPYRIGHT  
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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?

- ☒ Yes ☐ No If your answer is "Yes," who 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 3 135 932 Year of Registration 1990

**DERIVATIVE WORK OR COMPILATION** Complete both space 6a & b 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 02, Volume 02.03

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—

**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 for 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

**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.

**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

**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

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 6/1/91

Robert L. Meltzer

MAIL  
CERTIFICATE TO

Certificate  
will be  
mailed in  
window  
envelope

Name	<u>Kathe Hooper, ASTM</u>
Number/Street Address/Apartment Number	<u>1916 Race Street</u>
City/State/Zip	<u>Philadelphia, PA 19103-1187</u>

Complete all necessary spaces  
Sign your application in space 10

1. Application fee  
2. Remittance \$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. 20540

17 U.S.C. § 504(e) Any person who knowingly makes a false representation of a certain 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

December 1989-75,000

U.S. GOVERNMENT PRINTING OFFICE: 1989-282-170/28,005



# **EXHIBIT 111**

# 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 4-811-646



EFFECTIVE DATE OF REGISTRATION

12 10 1998  
Month Day Year

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

### TITLE OF THIS SERIAL ▼

1 1998 Annual Book of ASTM Standards: Thermal Insulation; Environmental Acoustics

Volume ▼	Number	Date on Copies ▼	Frequency of Publication ▼
04.06	04	November 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  
☐ 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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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 This information must be given in all cases.  
1998 Year

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

Complete this information ONLY if this work has been published. Month ► November Day ► 10 Year ► 1998  
United States 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  
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

10.1398

### ONE DEPOSIT RECEIVED

### TWO DEPOSITS RECEIVED

10.1398

### 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.

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Page 1 of 2 pages

ASTM000091



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FORM SE

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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 04, Volume 04.06

 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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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 ▶ 11-25-98



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

REQUIREMENTS

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

SEND TO: REGISTER OF COPYRIGHTS

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 1996. Please contact the Copyright Office after July 1996 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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ASTM000092

# **EXHIBIT 112**



# FORM SE

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 2 153 942

EFFECTIVE DATE OF REGISTRATION

9 14 87  
Month Day Year

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

**1** TITLE OF THIS SERIAL ▼  
1987 Annual Book of ASTM Standards, General Test Methods, Nonmetal Laboratory Apparatus; Statistical Methods; Appearance of Metals Durability of Nonmetallic Materials

Volume ▼ 14.01 Number ▼ 14 Date on Copies ▼ June 1987 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 ▼

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. ▼  
Entire Text

☐ 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"?  
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☐ No

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Name of Country

OR { Citizen of ▼  
Domiciled in ▼

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☐ Collective Work Other:

**3** 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 ▼ Day ▼ Year ▼ 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 and Materials  
1916 Race Street  
Philadelphia, PA 19103

APPLICATION RECEIVED

SEP 14 1987

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

SEP 14 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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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 ▼

TX 1-896-314

1986

**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 ▼~~1986 Annual Book of ASTM Standards Section 14 Volume 14.01~~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.~~See instructions  
before completing  
this space**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 ▼

~~Waverly 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.

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)☒ 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 and Materials

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

date ► 8/24/87



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will be  
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?

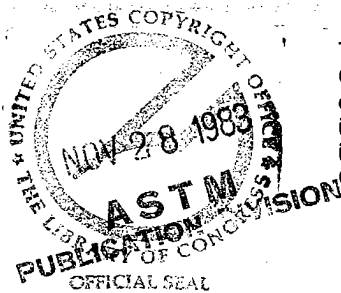
MAIL TO: Register of Copyrights,  
Library of Congress, Washington,  
D.C. 20559

\* 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 113**

# CERTIFICATE OF COPYRIGHT REGISTRATION



This certificate, issued under the seal of the Copyright Office in accordance with the provisions of section 410(a) of title 17, United States Code, attests that copyright registration has been made for the work identified below. The information in this certificate has been made a part of the Copyright Office records.

*Anna Reed*

REGISTER OF COPYRIGHTS  
United States of America

**FORM SE**

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 1-210-036

EFFECTIVE DATE OF REGISTRATION

10 20 83  
Month Day Year

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

1

TITLE OF THIS SERIAL ▼

1983 Annual Book of ASTM Standards Section 12, Volume 12.02  
Nuclear (II), Solar, and Geothermal Energy

Volume ▼

Number ▼

Date on Copies ▼

Frequency of Publication ▼

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 ▶ U.S.A.

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  
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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 ▼

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Domiciled in ▶

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☐ Collective Work

Other:

3

YEAR IN WHICH CREATION OF THIS  
ISSUE WAS COMPLETED

1983 ◀ 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 ▶ September Day ▶ 25 Year ▶ 1983

United States

◀ Nation

4

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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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20 OCT 1983

ONE DEPOSIT RECEIVED

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20 OCT 1983

REMITTANCE NUMBER AND DATE

17182 OCT 20 83

See instructions  
before completing  
this space.

ASTM000003



TX 1-210-036

EXAMINED BY

FORM SE

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☐ CORRESPONDENCE  
Yes☐ DEPOSIT ACCOUNT  
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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 932-027 and TX1-020-736

1982

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. ▼

1982 Annual Book of ASTM Standards, Parts 41, 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 previously 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 ▼

Waverly 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.

a ☒ Copies and Phonorecordsb ☐ Copies Onlyc ☐ Phonorecords Only

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

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 for☒ authorized agent of 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 ▶ 10/10/83

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL  
CERTIFI-  
CATE TOCertificate  
will be  
mailed in  
window  
envelope

Name ▼

American Society for Testing and Materials (RLM)

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.

ASTM000004

# **EXHIBIT 114**



TX 4-512-210



•T:0004512210•

EFFECTIVE DATE OF REGISTRATION

JUL 08 1997

Month Day Year

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

TITLE OF THIS SERIAL ▼

1997 Annual Book of ASTM Standards: *General Methods and Instrumentation; General Test Methods, Nonmetal; Chromatography; Durability of Nonmetallic Materials; Forensic Sciences; Laboratory Apparatus; Statistical Methods*

Volume ▼

14

Number ▼

02

Date on Copies ▼

July 1997

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

1997

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

Day

Year

Nation

June

23

1997

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  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

APPLICATION RECEIVED

JUL 08 1997

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JUL 08 1997

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 ►

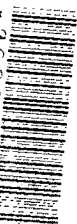
- Complete all applicable spaces (numbers 5-11) on the reverse side of this page
- See detailed instructions
- Sign the form at line 10

DO NOT WRITE HERE

Page 1 of 2 pages

NOTE:

Under the law, the copyright in this work is owned by the American Society for Testing and Materials.



667581260

See instructions before completing this space

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FORM SE

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☐ CORRESPONDENCE  
Yes

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USE  
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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) ▼1. ☐ This is the first published version of an issue previously registered in unpublished form.2. ☐ This is the first application submitted by this author as copyright claimant.3. ☐ 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 ▼

TH#

4-333-636

Year of Registration ▼

1996

DERIVATIVE WORK OR COMPILATION Complete both space 6a &amp; 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. ▼

1997 Annual Book of ASTM Standards, Section 4, Volume 03.

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 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

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

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 Materialsif 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 ▶

July 2, 1997

Handwritten signature (X) ▼

MAIL  
CERTIFI-  
CATE TO

Name ▼

Judy Helm, ASTM

Number Street Apartment Number ▼

100 Barr Harbor Drive

City State Zip ▼

West Conshohocken, PA 19428-2959

Certificate  
will be  
mailed in  
window  
envelope

## YOU MUST

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

FURNISH DOCUMENTS  
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

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

 Copyright 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 1998.  
Contact the Copyright  
Office in January 1998  
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 115**

REGISTRATION NUMBER

TX 3-972-349



EFFECTIVE DATE OF REGISTRATION

**FEB 01 1995**

Month Day Year

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

TITLE OF THIS SERIAL ▼

1994 Annual Book of ASTM Standards: *Building Seals and Sealants, Fire Standards, Building Construction, Dimension Stone, Fire*

Volume ▼

04

Number ▼

07

Date on Copies ▼

November

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 ☐ ☒ 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

1994

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 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. ▼

APPLICATION RECEIVED

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

TX# 3-735-6025

Year of Registration ▼

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 04, 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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before completing  
this space.

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☒ 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 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 ▶

January 19, 1995

Handwritten signature (X) ▼

**MAIL  
CERTIFI-  
CATE 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

YOU MUST

• Complete all necessary spaces  
• Sign your application in space 10SEND ALL CHECKS  
IN THE SAME PAY ENVELOPE1. 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. 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.

November 1990-75,000

☆U.S. GOVERNMENT PRINTING OFFICE: 1990-282-170/20,005



# **EXHIBIT 116**



# Application for Registration of a Claim to Copyright in a published book manufactured in the United States of America

FORM A	
CLASS	REGISTRATION NO.
A A	257751
DO NOT WRITE HERE	

**Instructions:** Make sure that all applicable spaces have been completed before you submit the form. The application must be **SIGNED AND NOTARIZED** (line 11) **must be COMPLETED** until after the date of publication given in line 4, and should state the facts which existed on that date. For further information, see page 4.

Pages 1 and 2 should be typewritten or printed with pen and ink. Pages 3 and 4 should contain exactly the same information as pages 1 and 2, but may be carbon copies. Mail all pages of the application to the Register of Copyrights, Library of Congress, Washington, D.C. 20540, together with 2 copies of the best edition of the work and the registration fee of \$6. Make your remittance payable to the Register of Copyrights.

1. **Copyright Claimant(s) and Address(es):** Give the name(s) and address(es) of the copyright owner(s). Ordinarily the name(s) should be the same as in the notice of copyright on the copies deposited.

Name American Society for Testing and Materials  
Address 1916 Race St., Phila., Pa. 19103

2. **Title:** Part 30 - 1971 Annual Book of ASTM Standards: General Testing Methods;  
(Give the title of the book as it appears on the title page)

Radioisotopes and Radiation Effects; Statistical Methods; Appearance of Materials;  
Emission, Molecular and Mass Spectroscopy; Sensory Evaluation of Materials and  
Products; Chromatography; Temperature Measurement; Space Simulation; Resinography;  
Microscopy; Deterioration of Nonmetallic Materials

3. **Authors:** Citizenship and domicile information must be given. Where a work was made for hire, the employer is the author. The citizenship of organizations formed under U.S. Federal or State law should be stated as U.S.A. Authors may be editors, compilers, translators, illustrators, etc., as well as authors of original text. If the copyright claim is based on new matter (see line 5) give requested information about the author of the new matter.

Name American Society for Testing and Materials Citizenship U.S.  
(Give legal name followed by pseudonym if latter appears on the copies) (Name of country)

Domiciled in U.S.A. Yes XX No        Address 1916 Race St., Phila., Pa. 19103

Name        Citizenship         
(Give legal name followed by pseudonym if latter appears on the copies) (Name of country)

Domiciled in U.S.A. Yes        No        Address       

Name        Citizenship         
(Give legal name followed by pseudonym if latter appears on the copies) (Name of country)

Domiciled in U.S.A. Yes        No        Address       

4. **Date of Publication of This Edition:** Give the complete date when copies of this particular edition were first placed on sale, sold, or publicly distributed. The date when copies were made or printed should not be confused with the date of publication.  
**NOTE:** The full date (month, day, and year) must be given. For further information, see page 4.

15 July 1971  
(Month) (Day) (Year)

5. **New Matter in This Version:** If any substantial part of this work has been previously published anywhere, give a brief, general statement of the nature of the new matter published for the first time in this version. New matter may consist of compilation, translation, abridgment, editorial revision, and the like, as well as additional text or pictorial matter.  
Compilation of previously published texts and additional text

NOTE: Leave line 6 blank unless there has been a PREVIOUS FOREIGN EDITION in the English language.

6. **Book in English Previously Manufactured and Published Abroad:** If all or a substantial part of the text of this edition was previously manufactured and published abroad in the English language, complete the following spaces:

Date of first publication of foreign edition        (Year)  
Was registration for the foreign edition made in the U.S. Copyright Office? Yes        No       

If your answer is "Yes," give registration number       

EXAMINER  
      

Complete all applicable spaces on next page



7. If registration fee is to be charged to a deposit account established in the Copyright Office, give name of account:

8. Name and address of person or organization to whom correspondence or refund, if any, should be sent:  
Name American Society for Testing and Materials Address 1916 Race St., Phila., Pa. 19103

9. Send certificate to:

(Type or  
print Name  
name and  
address) Address

American Society for Testing and Materials

1916 Race Street

(Number and street)

Phila., Pa. 19103

(State)

(ZIP code)

(City)

10. **Certification:** (NOTE: Application not acceptable unless signed)  
I CERTIFY that the statements made by me in this application are correct to the best of my knowledge.

Albert L. Batik

(Signature of copyright claimant or duly authorized agent)

11. **Affidavit (required by law.)** Instructions: (1) Fill in the blank spaces with special attention to those marked "(X)." (2) Sign the affidavit before an officer authorized to administer oaths within the United States, such as a notary public. (3) Have the officer sign and seal the affidavit and fill in the date of execution.

NOTE: The affidavit must be signed and notarized only on or after the date of publication or completion of printing which it states. The affidavit must be signed by an individual.

STATE OF Pennsylvania

COUNTY OF Philadelphia

I, the undersigned, depose and say that I am the  
☐ Person claiming copyright in the book described in this application;  
☒ Duly authorized agent of the person or organization claiming copyright in the book described in this application;  
☐ Printer of the book described in this application.

15 July 1971

That the book was published or the printing was completed on: (X) 15 July 1971  
(Give month, day, and year)

That, of the various processes employed in the production of the copies deposited, the setting of the type was performed within the limits of the United States or the making of the plates was performed within the limits of the United States from type set therein; or the lithographic or photoengraving processes used in producing the text were wholly performed within the limits of the United States. That such type setting, platemaking, lithographic or photoengraving process, printing, and binding were performed by the following establishments or individuals at the following addresses:

(GIVE THE NAMES AND ADDRESSES OF THE PERSONS OR ORGANIZATIONS WHO PERFORMED SUCH TYPESETTING OR PLATE MAKING OR LITHOGRAPHIC PROCESS OR PHOTOENGRAVING PROCESS OR PRINTING AND BINDING, ETC.)

Names (X) WAVERLY PRESS, INC. Addresses (X) Easton, Maryland (U.S.A.)

Albert L. Batik

(Signature of affiant)

(Sign and notarize only on or after date given above)

Subscribed and sworn to before me this 22nd

day of July, 1971

PLACE  
NOTARIAL SEAL  
HERE

Mae E. Turner

(Signature of Notary Public) Philadelphia, Philadelphia Co.

FOR COPYRIGHT OFFICE USE ONLY

My Commission Expires January 20, 1975

Application and affidavit received

JUL 23 1971

Two copies received

JUL 23 1971

Fee received

7710 JUL 23 '71

Renewal

Page 1

Application for Registration  
in a published book manufactured

Instructions: Make sure that all applicable information is completed before you submit the form. The application must be completed and NOTARIZED. The application must be submitted until after the date of publication, and should state the facts which exist at the time of publication. See page 4.

1. Copyright Claimant(s) and Address (Name(s) should be the same as in the notice of publication)  
University of Washington

Seattle, Washington

2. Title: Roads and Trails

3. Authors: Citizenship and domicile of author. Where a work was made for the author. The citizenship of organization or Federal or State law should be given.  
Frederick  
(Give legal name for author)

Domiciled in U.S.A. Yes X

Name Frederick  
(Give legal name for author)

Domiciled in U.S.A. Yes X

Name Frederick  
(Give legal name for author)

Domiciled in U.S.A. Yes X

4. Date of Publication of Title: Date when copies of this part were on sale, sold, or publicly distributed.

5. New Matter in This Version: If work has been previously published, give general statement of the new matter.  
Editorial

6. Book in English Previously Manufactured: Date of first publication.

NOTE: Leave blank.

7. Book in English Previously Manufactured: Date of first publication.

If your answer is "Yes,"

Page 2



# **EXHIBIT 117**

## 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 565-132**

**October 2, 2019**

A handwritten signature in dark ink, reading "Kay A. Leahy". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

United States Register of Copyrights and Director



**FORM TX**

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX ... 565-132

TX

TXU

EFFECTIVE DATE OF REGISTRATION

14 OCT 1980

(Month)

(Day)

(Year)

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE CONTINUATION SHEET (FORM TX/CON)

<b>1</b> Title	<b>TITLE OF THIS WORK:</b> 1980 Annual Book of ASTM Standards, Part 10: Metals-Physical, Mechanical, Corrosion Testing <small>If a periodical or serial give: Vol. No Issue Date</small>	<b>PREVIOUS OR ALTERNATIVE TITLES:</b>
	<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	

<b>2</b> 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 & Materials <small>Was this author's contribution to the work a "work made for hire"? Yes <u>XXX</u> No</small>	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		<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 <small>If the answer to either of these questions is "Yes," see detailed instructions attached.</small>
		<b>AUTHOR OF:</b> (Briefly describe nature of this author's contribution) Entire Text	
	2	<b>NAME OF AUTHOR:</b> <small>Was this author's contribution to the work a "work made for hire"? Yes No</small>	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		<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 <small>If the answer to either of these questions is "Yes," see detailed instructions attached.</small>
		<b>AUTHOR OF:</b> (Briefly describe nature of this author's contribution)	
	3	<b>NAME OF AUTHOR:</b> <small>Was this author's contribution to the work a "work made for hire"? Yes No</small>	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		<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 <small>If the answer to either of these questions is "Yes," see detailed instructions attached.</small>
<b>AUTHOR OF:</b> (Briefly describe nature of this author's contribution)			

<b>3</b> Creation and Publication	<b>YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED:</b> Year 1980 <small>(This information must be given in all cases)</small>	<b>DATE AND NATION OF FIRST PUBLICATION:</b> Date September 5, 1980 <small>(Month) (Day) (Year)</small> Nation United States <small>(Name of Country)</small> <small>(Complete this block ONLY if this work has been published.)</small>
--------------------------------------	--	---

<b>4</b> Claimant(s)	<b>NAME(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S):</b> American Society for Testing & 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

DO NOT WRITE HERE

Page 1 of 2 pages

EXAMINED BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>	APPLICATION RECEIVED: <i>11/15/80</i>	FOR COPYRIGHT OFFICE USE ONLY
CORRESPONDENCE: <input type="checkbox"/> Yes	DEPOSIT RECEIVED: <i>11/15/80</i>	
DEPOSIT ACCOUNT FUNDS USED: <input type="checkbox"/>	REMITTANCE NUMBER AND DATE: <i>12461 OCT 14 80</i>	

**DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON)**

<b>PREVIOUS REGISTRATION:</b> <ul style="list-style-type: none"> <li>Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office? Yes <input checked="" type="checkbox"/> No</li> <li>If your answer is "Yes," why is another registration being sought? (Check appropriate box) <ul style="list-style-type: none"> <li><input type="checkbox"/> This is the first published edition of a work previously registered in unpublished form</li> <li><input type="checkbox"/> This is the first application submitted by this author as copyright claimant</li> <li><input checked="" type="checkbox"/> This is a changed version of the work, as shown by line 6 of this application</li> </ul> </li> <li>If your answer is "Yes," give: Previous Registration Number <i>TX 343-482</i> Year of Registration <i>1979</i></li> </ul>	<b>5</b> <b>Previous Registration</b>
--	--

<b>COMPILATION OR DERIVATIVE WORK:</b> (See instructions) <p>PREEXISTING MATERIAL. (Identify any preexisting work or works that this work is based on or incorporates.)</p> <p><i>1979 Annual Book of ASTM Standards, Part 10</i></p> <p>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.)</p> <p><i>Compilation of previously published text plus additional text</i></p>	<b>6</b> <b>Compilation or Derivative Work</b>
--	---

<b>MANUFACTURERS AND LOCATIONS:</b> (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.)	<b>7</b> <b>Manufacturing</b>			
<table border="0"> <tr> <td>NAMES OF MANUFACTURERS</td> <td>PLACES OF MANUFACTURE</td> </tr> <tr> <td><i>Waverly Press, Inc.</i></td> <td><i>Easton, Maryland</i></td> </tr> </table>		NAMES OF MANUFACTURERS	PLACES OF MANUFACTURE	<i>Waverly Press, Inc.</i>
NAMES OF MANUFACTURERS	PLACES OF MANUFACTURE			
<i>Waverly Press, Inc.</i>	<i>Easton, Maryland</i>			

<b>REPRODUCTION FOR USE OF BLIND OR PHYSICALLY-HANDICAPPED PERSONS:</b> (See instructions) <ul style="list-style-type: none"> <li>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.</li> </ul> <p>a <input checked="" type="checkbox"/> Copies and phonorecords      b <input type="checkbox"/> Copies Only      c <input type="checkbox"/> Phonorecords Only</p>	<b>8</b> <b>License for Handicapped</b>
--	--

<b>DEPOSIT ACCOUNT:</b> (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: _____	<b>CORRESPONDENCE:</b> (Give name and address to which correspondence about this application should be sent) Name: <i>Robert L. Meltzer</i> Address: <i>ASTM 1916 Race Street</i> <i>Philadelphia, Pa. 19103</i> (City) (State) (ZIP)	<b>9</b> <b>Fee and Correspondence</b>
--	---	---

<b>CERTIFICATION:</b> * I, the undersigned, hereby certify that I am the: (Check one) <input type="checkbox"/> author <input type="checkbox"/> other copyright claimant <input type="checkbox"/> owner of exclusive right(s) <input checked="" type="checkbox"/> 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	<b>10</b> <b>Certification (Application must be signed)</b>
Handwritten signature (X) <i>[Signature]</i> Typed or printed name <i>Robert L. Meltzer</i> Date <i>9/15/80</i>	

<div style="border: 1px solid black; padding: 10px; text-align: center;"> <b>American Society for Testing &amp; Materials</b>  <i>(Name)</i>  <b>1916 Race Street</b>  <i>(Number, Street and Apartment Number)</i>  <b>Philadelphia, Pa. 19103</b>  (City) (State) (ZIP code) </div>	<b>MAIL CERTIFICATE TO</b>  <b>(Certificate will be mailed in window envelope)</b>	<b>11</b> <b>Address For Return of Certificate</b>
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# **EXHIBIT 118**

# CERTIFICATE OF COPYRIGHT REGISTRATION



OFFICIAL SEAL

This certificate, issued under the seal of the Copyright Office in accordance with the provisions of section 410(a) of title 17, United States Code, attests that copyright registration has been made for the work identified below. The information in 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 1 846 704

EFFECTIVE DATE OF REGISTRATION

Month 7 Day 7 Year 86

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

**TITLE OF THIS SERIAL** 1788 Annual Book of ASTM Standards, General Test Methods, Nonmetal; Laboratory Apparatus, Statistical Methods; Appearance of Materials; Durability of Nonmetallic Materials

**Volume** 14.02 **Number** 14 **Date on Copies** June 1986 **Frequency of Publication** 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**

Name of Country

OR { Citizen of U.S.A.  
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 detail instructions.

**NATURE OF AUTHORSHIP**

☐ Collective Work Other:

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

**NAME OF AUTHOR**

Entire Text

**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 detail instructions.

**NATURE OF AUTHORSHIP**

☐ 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

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 detail instructions.

**NATURE OF AUTHORSHIP**

☐ Collective Work Other:

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

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

1986 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 June Day 30 Year 1986  
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 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.

APPLICATION RECEIVED

JUL 07 1986  
ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

JUL 07 1986

REMITTANCE NUMBER AND DATE

DO NOT WRITE HERE  
OFFICE USE ONLY

DO NOT WRITE HERE

**NOTE**

Under the law, the "author" of a "work made for hire" is generally the employer.

007353712



007353712

3  
4

See instructions before completing this space.

MOORE ON BACK

EXAMINED BY

FORM SE

CHECKED BY

☐ CORRESPONDENCE  
Yes

☐ DEPOSIT ACCOUNT  
FUNDS USED
FOR  
COPYRIGHT  
OFFICE  
USE  
ONLY

TX 1 846 704

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 ▼

TX 1-626-727

1985

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. ▼

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 instruction  
before complete  
this space.

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 ▼

Waverly 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 instruction

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

Be sure to  
give your  
daytime phc  
number.

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

Check one ▶

☐ author☐ other copyright claimant☐ owner of exclusive right(s) American Society for☒ authorized agent of 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 ▶ 6/30/86



Handwritten signature

MAIL  
CERTIFI-  
CATE TOCertificate  
will be  
mailed in  
window  
envelope

Name ▼

American Society for Testing and Materials

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.

# **EXHIBIT 119**

# 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.

*Barbara Ringer*  
ACTING REGISTER OF COPYRIGHTS  
United States of America

## FORM SE

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER

TX 3 689 742

EFFECTIVE DATE OF REGISTRATION

OCT 06 1993  
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: Pesticides, Resources Recovery, Hazardous Substances and Oil Spill Responses, Waste Management, Biological Effects

Volume ▼

Number ▼

Date on Copies ▼

Frequency of Publication ▼

11

04

August 1993

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

This information must be given in all cases.

1993 Year

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE

Complete this information ONLY if this work has been published.

Month ▼ July Day ▼ 28 Year ▼ 1993

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. ▼

APPLICATION RECEIVED

OCT. 06. 1993

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

OCT. 06. 1993

REMITTANCE NUMBER AND DATE

MORE ON BACK ▶

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

DO NOT WRITE HERE

ASTM000041



TX 3 689 742

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 ▼

TX# 3 450-279

Year of Registration ▼

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 11, Volume 04.

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 Phonorecordsb ☐ Copies Onlyc ☐ Phonorecords Only

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

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 ▶ 8/11/93

Handwritten signature (X) ▼

Robert L. Meltzer

MAIL  
CERTIFI-  
CATE 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 91. 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. 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 connection with the application, shall be fined not more than \$2,500.

ASTM000042

# **EXHIBIT 120**

# 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  
United States of America

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

TX 4-571-119



TX0004571119

EFFECTIVE DATE OF REGISTRATION

OCT 22 1997  
Month Day Year

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

TITLE OF THIS SERIAL ▼

1997 Annual Book of ASTM Standards: CONSTRUCTION: BUILDING SEALS AND  
SEALANTS; FIRE STANDARDS; DIMENSION STONE

Volume ▼

Number ▼

Date on Copies ▼

Frequency of Publication ▼

PH 07

04

NOVEMBER 1997

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  
1997

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 ▼ OCT Day ▼ 10 Year ▼ 1997

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  
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

OCT 22 1997

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

OCT 22 1997

REMITTANCE NUMBER AND DATE

DO NOT WRITE HERE  
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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

ASTM000071

EXAMINED BY

FORM SE

CHECKED BY

☐ 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 ▼

Year of Registration ▼

TH#

1996

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 , Volume

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.

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 ▼ 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 &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) ▶

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 ▶

11/1/92

Handwritten signature (X) ▼

MAIL  
CERTIFI-  
CATE 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  
window  
envelope

## YOU MUST

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

SEND ALL ELEMENTS  
OF 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.

\* 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

ASTM000072

# **EXHIBIT 121**



# CERTIFICATE OF COPYRIGHT REGISTRATION

**FORM SE**

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER



OFFICIAL SEAL

This certificate, issued under the seal of the Copyright Office in accordance with the provisions of section 410(a) of title 17, United States Code, attests that copyright registration has been made for the work identified below. The information in this certificate has been made a part of the Copyright Office records.

*[Signature]*

REGISTER OF COPYRIGHTS  
United States of America

TX 2-407 753

EFFECTIVE DATE OF REGISTRATION  
9 23 88  
Month Day Year

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

## TITLE OF THIS SERIAL

1988 Annual Book of ASTM Standards, Pesticides; Resource Recovery; Hazardous Substances & Oil Spill Response; Waste Disposal; Biological Effects

Volume 11.04 Number 11 Date on Copies August 1988 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

NATURE OF AUTHORSHIP  
☐ Collective Work Other:

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

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  
☐ Collective Work Other:

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

YEAR IN WHICH CREATION OF THIS ISSUE WAS COMPLETED  
1988

DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR ISSUE  
August 30 1988  
Month Day 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 and Materials  
1916 Race Street  
Philadelphia, PA 19103

APPLICATION RECEIVED  
SEP 23 1988  
ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED  
SEP 23 1988

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.

DO NOT WRITE

EXAMINED BY

FORM S

CHECKED BY

☐ CORRESPONDENCE  
Yes

☐ DEPOSIT ACCOUNT  
FUNDS USED
FOR  
COPYRIGHT  
OFFICE  
USE  
ONLY

TX 2-407 753

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 ▼

TX 2-193-676

Year of Registration ▼

1987

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. ▼

1987 Annual Book of ASTM Standards Section 11 Volume 11.04

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 instr  
before com  
this space.

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

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 instr

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

Be sure  
give you  
daytime  
number.

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

Check one ►

☐ author☐ other copyright claimant☐ owner of exclusive right(s) American Society for☒ authorized agent of 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 09/23/88



Handwritten signature (X) ▼

MAIL  
CERTIFI-  
CATE TOCertificate  
will be  
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.

# **EXHIBIT 122**



## 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 3-128-183**

**October 2, 2019**

A handwritten signature in blue ink, reading 'Kay A. Lusk'.

United States Register of Copyrights and Director



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

TX 3 128 183

EFFECTIVE DATE OF REGISTRATION

MAR 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: ROAD AND PAVING MATERIALS;  
Pavement Management Technologies

Volume **04** Number **04.03** Date on Copies **APRIL 1991** 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**

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

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

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

**NATURE OF AUTHORSHIP**

☐ Collective Work ☒ Other

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

**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**

Citizen of  
OR Domiciled in

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

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

**NATURE OF AUTHORSHIP**

☐ 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

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

**AUTHOR'S NATIONALITY OR DOMICILE**

Citizen of  
OR Domiciled in

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

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

**NATURE OF AUTHORSHIP**

☐ Collective Work ☒ Other

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

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

**1991**

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

**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**

APPLICATION RECEIVED

MAR 25 1991

ONE DEPOSIT RECEIVED

TWO DEPOSITS RECEIVED

MAR 25 1991

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

**NOTE**

Under the law, the "author" of a work made for hire is generally the employer (or the person for whom the work was prepared) as "author" of that part, and leave the space for dates of birth and death blank.



TX 3 128 183

EXAMINED BY *[Signature]*

FORM SE

CHECKED BY *[Signature]*

☐ 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 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 9 on this application.

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

Year of Registration ☐

TX 2 859 463

1990

**DERIVATIVE WORK OR COMPILED** 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 04, Volume 04.13

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.

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 7 of this application in Braille for similar tactile symbols; or (2) phonorecords embodying a fixation of a reading of that work; or (3) both.

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 ☐

**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 ☐ 6/14/91



Handwritten signature (X) ☐

*Robert L. Meltzer*

MAIL  
CERTIFI-  
CATE TO

Certif. etc  
will be  
mailed in  
envelope

Name ☐

Kathe Hooper, ASTM

Number Street Apartment Number ☐

1916 Race Street

City State Zip ☐

Philadelphia, PA 19103-1187

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

1. Application form  
2. Non-refundable \$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. 20540

\* 17 USC § 506(a). 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.

December 1990—75 005

U.S. GOVERNMENT PRINTING OFFICE: 1988—172-170 20 005

# **EXHIBIT 123**



REGISTRATION NUMBER

TX 339-441

TXU

EFFECTIVE DATE OF REGISTRATION

OCT 2 1979  
Month Day Year

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

1

Title

TITLE OF THIS WORK: 1979 Annual Book of ASTM Standards,  
Part 46: End Use and Consumer Products

If a periodical or serial give: Vol No Issue Date

PREVIOUS OR ALTERNATIVE TITLES:

PUBLICATION AS A CONTRIBUTION: (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)

IMPORTANT: 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.

NAME OF AUTHOR: American Society for Testing and Materials

Was this author's contribution to the work a "work made for hire"? Yes ☒ No

DATES OF BIRTH AND DEATH:

Born (Year) Died (Year)

AUTHOR'S NATIONALITY OR DOMICILE:

1 Citizen of (Name of Country) } or { Domiciled in U.S.A. (Name of Country)

AUTHOR OF: (Briefly describe nature of this author's contribution)

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 attached.

NAME OF AUTHOR:

Was this author's contribution to the work a "work made for hire"? Yes No

DATES OF BIRTH AND DEATH:

Born (Year) Died (Year)

AUTHOR'S NATIONALITY OR DOMICILE:

2 Citizen of (Name of Country) } or { Domiciled in (Name of Country)

AUTHOR OF: (Briefly describe nature of this author's contribution)

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 attached.

NAME OF AUTHOR:

Was this author's contribution to the work a "work made for hire"? Yes No

DATES OF BIRTH AND DEATH:

Born (Year) Died (Year)

AUTHOR'S NATIONALITY OR DOMICILE:

3 Citizen of (Name of Country) } or { Domiciled in (Name of Country)

AUTHOR OF: (Briefly describe nature of this author's contribution)

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 attached.

YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED:

Year 1979

(This information must be given in all cases)

DATE AND NATION OF FIRST PUBLICATION:

Date August 2 1979  
(Month) (Day) (Year)Nation United States  
(Name of Country)

(Complete this block ONLY if this work has been published)

NAME(S) AND ADDRESS(ES) OF COPYRIGHT CLAIMANT(S):

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

TRANSFER: (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.)



TX 339-441	EXAMINED BY: <u>P-2</u>	APPLICATION RECEIVED: <u>07.02</u>	FOR COPYRIGHT OFFICE USE ONLY
	CHECKED BY: <u>LB</u>	DEPOSIT RECEIVED: <u>07.02</u>	
	CORRESPONDENCE: <input type="checkbox"/> Yes	REMITTANCE NUMBER AND DATE <u>2041 OCT 279</u>	
DEPOSIT ACCOUNT FUNDS USED: <input type="checkbox"/>			

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON)

**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 134-979 Year of Registration 1978

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)

1978 Annual Book of ASTM Standards, Part 46

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

PLACES OF MANUFACTURE

Waverly Press, Inc.

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.

a ☒ Copies and phonorecords

b ☐ Copies Only

c ☐ 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 (Apt.) \_\_\_\_\_  
Philadelphia, PA 19103 (City) (State) (ZIP)

9

Fee and  
Correspondence

**CERTIFICATION:** \* I, the undersigned, hereby certify that I am the: (Check one)

American Society for Testing and Materials

☐ 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.



Handwritten signature: (X) Robert L. Meltzer

Typed or printed name: Robert L. Meltzer

Date: 9/11/79

10

Certification  
(Application must be signed)

American Society for Testing & Materials

(Name)

1916 Race Street

(Number, Street and Apartment Number)

Philadelphia, PA 19103

(City)

(State)

(ZIP code)

MAIL  
CERTIFICATE

26 OCT 1979

(Certificate will be mailed in window envelope)

11

Address  
For Return  
of  
Certificate



# **EXHIBIT 124**

## 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 3-450-276

October 1, 2019

A handwritten signature in blue ink, reading "Mary A. Lush". The signature is fluid and cursive, with a long horizontal stroke at the end.

United States Register of Copyrights and Director



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

TX 3 450 276

EFFECTIVE DATE OF REGISTRATION

JAN 12 1993

Month Day Year

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: Electrical Insulating Liquids and Gases; Electrical Protective Equipment**

Volume **10** Number **03** Date in Copies **May** 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**

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**

☐ 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

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

**AUTHOR'S NATIONALITY OR DOMICILE**

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**

☐ 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

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

**AUTHOR'S NATIONALITY OR DOMICILE**

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**

☐ Collective Work ☐ Other  
Briefly describe nature of the material created by this author in which copyright is claimed

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

**1992** 4 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 **15** Year **1992**  
**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.

**APPLICATION RECEIVED**

**JAN 12 1993**

**ONE DEPOSIT RECEIVED**

**TWO DEPOSITS RECEIVED**

**JAN 12 1993**

**REMITTANCE NUMBER AND DATE**

**MOVE 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**



EXAMINED BY

FORM 5E

CHECKED BY

TX 3 450 276

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 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# 3 135-938

Year of Registration ▼

1991

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 ▼

1991 Annual Book of ASTM Standards, Section 10, 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.

—space deleted—

REPRODUCTION FOR USE OF BLIND OR PHYSICALLY HANDICAPPED INDIVIDUALS

A signature on this form at space 8, 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

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 401 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☒ 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 ► December 29, 1992



Handwritten signature (X) ▼

Robert L. Meltzer

MAIL  
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 sections
- Sign your application in space 10

- Application form
- Non-refundable \$30 filing fee in check or money order payable to Register of Copyrights
- Deposit material

Register of Copyrights  
Library of Congress  
Washington, D.C. 20540

\* 17 USC § 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 statement filed in connection with the application shall be fined not more than \$2,500

November 1980-75,000

# **EXHIBIT 125**



## 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 565-140

October 1, 2019

A handwritten signature in dark ink, reading "Kay A. Lusk". The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

United States Register of Copyrights and Director



# FORM TX

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NUMBER	
TX	565-140
TX	TXU
EFFECTIVE DATE OF REGISTRATION	
14 OCT 1980	
(Month)	(Day) (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> 1980 Annual Book of ASTM Standards, Part 46: End Use and Consumer Products	<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 Was this author's contribution to the work a "work made for hire"? Yes <input checked="" type="checkbox"/> No	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		<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> Was this author's contribution to the work a "work made for hire"? Yes No	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		<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> Was this author's contribution to the work a "work made for hire"? Yes No	<b>DATES OF BIRTH AND DEATH:</b> Born (Year) Died (Year)
		<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 1980 (This information must be given in all cases.)	<b>DATE AND NATION OF FIRST PUBLICATION:</b> Date September 5, 1980 (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 & 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



EXAMINED BY: CHECKED BY: <i>RMB</i>	APPLICATION RECEIVED: JAN 1980	FOR COPYRIGHT OFFICE USE ONLY
CORRESPONDENCE <input type="checkbox"/> Yes	DEPOSIT RECEIVED: JAN 1980	
DEPOSIT ACCOUNT FUNDS USED <input type="checkbox"/>	REMITTANCE NUMBER AND DATE: 12461 OCT 14 80	

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED ADDITIONAL SPACE, USE CONTINUATION SHEET (FORM TX/CON)

**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 339-441 Year of Registration 1979

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.)

{ 1979 Annual Book of ASTM Standards, Part 46

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, Maryland

7

Manufactur-  
ing

**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 for 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  
Address: ASTM 1916 Race Street  
Philadelphia, Pa. 19103  
(City) (State) (ZIP)

9

Fee and  
Correspond-  
ence

**CERTIFICATION:** \* I, the undersigned, hereby certify that I am the: (Check one) American Society for Testing & Materials

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

(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)

Typed or printed name

Robert L. Meltzer

Date

9/25/80

10

Certification  
(Application  
must be  
signed)

American Society for Testing & Materials

(Name)

1916 Race Street

(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