

**MACHINE SHOP PRIMER: AN  
INTRODUCTION TO MACHINE  
TOOLS AND SHOP APPLIANCES,  
WITH ILLUSTRATIONS, NAMES  
AND DEFINITIONS**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649455300

Machine Shop Primer: An Introduction to Machine Tools and Shop Appliances, With Illustrations, Names and Definitions by Fred H. Colvin & Frank A. Stanley

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.  
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

[www.triestepublishing.com](http://www.triestepublishing.com)

**FRED H. COLVIN & FRANK A. STANLEY**

**MACHINE SHOP PRIMER: AN  
INTRODUCTION TO MACHINE  
TOOLS AND SHOP APPLIANCES,  
WITH ILLUSTRATIONS, NAMES  
AND DEFINITIONS**



**MACHINE SHOP PRIMER**

# McGraw-Hill Book Company

*Publishers of Books for*

Electrical World	The Engineering and Mining Journal
Engineering Record	Engineering News
Railway Age Gazette	American Machinist
Signal Engineer	American Engineer
Electric Railway Journal	Coal Age
Metallurgical and Chemical Engineering	Power

# MACHINE SHOP PRIMER

AN INTRODUCTION TO MACHINE TOOLS  
AND SHOP APPLIANCES, WITH  
ILLUSTRATIONS, NAMES  
AND DEFINITIONS

BY

FRED H. COLVIN, A. S. M. E.

ASSOCIATE EDITOR OF THE AMERICAN MACHINIST, AUTHOR OF "MACHINE  
SHOP ARITHMETIC," "MACHINE SHOP CALCULATIONS," "THE  
HILL KINK BOOKS," ETC., ETC.

AND

FRANK A. STANLEY

ASSOCIATE EDITOR OF THE AMERICAN MACHINIST, AUTHOR OF "ACCURATE  
TOOL WORK," "AUTOMATIC SCREW MACHINES," "THE  
HILL KINK BOOKS," ETC., ETC.

FIRST EDITION

SECOND IMPRESSION

McGRAW-HILL BOOK COMPANY  
239 WEST 39TH STREET, NEW YORK  
6 BOUVERIE STREET, LONDON, E. C.  
1910

COPYRIGHT, 1910  
BY THE  
MCGRAW-HILL BOOK COMPANY

*Printed and Electrotyped by  
The Maple Press  
York, Pa.*



## PREFACE

---

The first step toward a clear understanding of practical shop work is a knowledge of the names of the machines, tools, and appliances used. This book has been prepared to aid both students and instructors in this line of work.

The unusual arrangement is the result of careful consideration and of consultation with Mr. J. Howard Renshaw and other successful instructors in industrial lines.

The first section can be used as a sketch book and from it the learner or apprentice can see just what a tool looks like. Should he fail to remember its name, he can refer to the next section.

The second section gives the correct name of every part illustrated. The proper spelling of the names and terms used are an essential part of this work and this section will be found a practical spelling book.

The third section is a very complete and convenient reference book on mechanical subjects. It contains much general information in such form as to be readily understood.

It is hoped this book will prove of assistance to those who are in any way interested in industrial education.

THE AUTHORS.

## SECTION I

---

Contains 508 illustrations of machines, tools, and machine-shop appliances. The names will be found in Section II with a corresponding number. Section III gives more detailed information about them.

1. *Phragmites australis* (Common Reed)

2. *Spartina patens* (Cordgrass)

3. *Scirpus americanus* (Sedges)

4. *Distichlis spicata* (Spartan Grass)

5. *Eleocharis acicularis* (Sedges)

6. *Eleocharis obtusa* (Sedges)

7. *Eleocharis tenuis* (Sedges)

8. *Eleocharis palustris* (Sedges)

9. *Eleocharis acicularis* (Sedges)

10. *Eleocharis obtusa* (Sedges)

11. *Eleocharis tenuis* (Sedges)

12. *Eleocharis palustris* (Sedges)

13. *Eleocharis acicularis* (Sedges)

14. *Eleocharis obtusa* (Sedges)

15. *Eleocharis tenuis* (Sedges)

16. *Eleocharis palustris* (Sedges)

17. *Eleocharis acicularis* (Sedges)

18. *Eleocharis obtusa* (Sedges)

19. *Eleocharis tenuis* (Sedges)

20. *Eleocharis palustris* (Sedges)

21. *Eleocharis acicularis* (Sedges)

22. *Eleocharis obtusa* (Sedges)

23. *Eleocharis tenuis* (Sedges)

24. *Eleocharis palustris* (Sedges)

25. *Eleocharis acicularis* (Sedges)

26. *Eleocharis obtusa* (Sedges)

27. *Eleocharis tenuis* (Sedges)

28. *Eleocharis palustris* (Sedges)

29. *Eleocharis acicularis* (Sedges)

30. *Eleocharis obtusa* (Sedges)

31. *Eleocharis tenuis* (Sedges)

32. *Eleocharis palustris* (Sedges)

33. *Eleocharis acicularis* (Sedges)

34. *Eleocharis obtusa* (Sedges)

35. *Eleocharis tenuis* (Sedges)

36. *Eleocharis palustris* (Sedges)

37. *Eleocharis acicularis* (Sedges)

38. *Eleocharis obtusa* (Sedges)

39. *Eleocharis tenuis* (Sedges)

40. *Eleocharis palustris* (Sedges)

41. *Eleocharis acicularis* (Sedges)

42. *Eleocharis obtusa* (Sedges)

43. *Eleocharis tenuis* (Sedges)

44. *Eleocharis palustris* (Sedges)

45. *Eleocharis acicularis* (Sedges)

46. *Eleocharis obtusa* (Sedges)

47. *Eleocharis tenuis* (Sedges)

48. *Eleocharis palustris* (Sedges)

49. *Eleocharis acicularis* (Sedges)

50. *Eleocharis obtusa* (Sedges)

51. *Eleocharis tenuis* (Sedges)

52. *Eleocharis palustris* (Sedges)

53. *Eleocharis acicularis* (Sedges)

54. *Eleocharis obtusa* (Sedges)

55. *Eleocharis tenuis* (Sedges)

56. *Eleocharis palustris* (Sedges)

57. *Eleocharis acicularis* (Sedges)

58. *Eleocharis obtusa* (Sedges)

59. *Eleocharis tenuis* (Sedges)

60. *Eleocharis palustris* (Sedges)

61. *Eleocharis acicularis* (Sedges)

62. *Eleocharis obtusa* (Sedges)

63. *Eleocharis tenuis* (Sedges)

64. *Eleocharis palustris* (Sedges)

65. *Eleocharis acicularis* (Sedges)

66. *Eleocharis obtusa* (Sedges)

67. *Eleocharis tenuis* (Sedges)

68. *Eleocharis palustris* (Sedges)

69. *Eleocharis acicularis* (Sedges)

70. *Eleocharis obtusa* (Sedges)

71. *Eleocharis tenuis* (Sedges)

72. *Eleocharis palustris* (Sedges)

73. *Eleocharis acicularis* (Sedges)

74. *Eleocharis obtusa* (Sedges)

75. *Eleocharis tenuis* (Sedges)

76. *Eleocharis palustris* (Sedges)

77. *Eleocharis acicularis* (Sedges)

78. *Eleocharis obtusa* (Sedges)

79. *Eleocharis tenuis* (Sedges)

80. *Eleocharis palustris* (Sedges)

81. *Eleocharis acicularis* (Sedges)

82. *Eleocharis obtusa* (Sedges)

83. *Eleocharis tenuis* (Sedges)

84. *Eleocharis palustris* (Sedges)

85. *Eleocharis acicularis* (Sedges)

86. *Eleocharis obtusa* (Sedges)

87. *Eleocharis tenuis* (Sedges)

88. *Eleocharis palustris* (Sedges)

89. *Eleocharis acicularis* (Sedges)

90. *Eleocharis obtusa* (Sedges)

91. *Eleocharis tenuis* (Sedges)

92. *Eleocharis palustris* (Sedges)

93. *Eleocharis acicularis* (Sedges)

94. *Eleocharis obtusa* (Sedges)

95. *Eleocharis tenuis* (Sedges)

96. *Eleocharis palustris* (Sedges)

97. *Eleocharis acicularis* (Sedges)

98. *Eleocharis obtusa* (Sedges)

99. *Eleocharis tenuis* (Sedges)

100. *Eleocharis palustris* (Sedges)