

Engraving and Printing Methods

By

CHARLES J. HAYES

DIRECTOR OF ILLUSTRATING
INTERNATIONAL CORRESPONDENCE SCHOOLS

ENGRAVING AND PRINTING METHODS
Parts 1-2

535

Published by

INTERNATIONAL TEXTBOOK COMPANY

SCRANTON, PA.

Engraving and Printing Methods, Parts 1 and 2;
Copyright, 1935, 1930, by INTERNATIONAL TEXTBOOK COMPANY.

Copyright in Great Britain

All rights reserved

Printed in U. S. A.

INTERNATIONAL TEXTBOOK PRESS
Scranton, Pa.

CONTENTS

NOTE.—This book is made up of separate parts, or sections, as indicated by their titles, and the page numbers of each usually begin with 1. In this list of contents the titles of the parts are given in the order in which they appear in the book, and under each title is a full synopsis of the subjects treated.

ENGRAVING AND PRINTING METHODS

PART 1

	<i>Pages</i>
Engraving Methods	1-82
Introduction	1
Line Engravings	2-34
General principles; Copy for line engravings; Proportions of photographic reductions; Making the plate; Drawings for line engravings.	
Halftone Process of Engraving.....	34-82
Purpose and Methods of the Process.....	34-40
Nature and use of halftone illustrations; Apparatus and process; Developing the negative; Preparing the copper plate; Etching the plate; Finishing the plate.	
Mezzograph Screen	41
Halftones and Line Engravings Compared.....	42-44
Photographs for Halftones.....	45-46
Importance of right kind of photograph; Work of the photographer; Preparing the subject for photographing; Details of the work.	
Drawings for Halftones.....	47-54
Wash drawings; Crayon and charcoal drawings; Body-color drawings; Water colors and pastels; Halftones direct from objects; Combination photographs and drawings.	
Styles of Finishing Halftones.....	55-58
Combination Line and Halftone Plates.....	59-66
Copy of combinations; Examples of combinations; Highlight halftones.	
Retouching of Photographs for Halftones.....	67-76
Objects and results of retouching; Materials and methods; Examples of retouching; Emphasizing certain parts of the machine; Increasing definition and contrast; Sectional and phantom views; Examples of retouching for two colors.	
Preparing Copy for Newspaper Halftones.....	77-78
Mortise of Plates.....	79-80
Selection of Screens for Halftones.....	80-82

ENGRAVING AND PRINTING METHODS

PART 2

	<i>Pages</i>
Line and Halftone Color Work.....	1-11
Line Color Plates.....	1- 3
Printing in several colors; Drawings and designs; Exam- ples of different methods.	
Two-Color Line and Halftone Work.....	4- 5
The Three-Color Process.....	5-11
Principles of the three-color process; Use of filters; Angle of screen; Examples of three-color work; Register marks; Printing and mounting of color plates.	
Reproducing of Type Matter.....	11-12
Sending Copy to Engraver.....	13-14
Cost of Engraving Work.....	14-15
Wood Engraving.....	16-20
Steel and Copper-Plate Engraving.....	21
Wax Engraving.....	22-24
Embossing and Stamping Dies.....	25-27
Lithography.....	28-32
Offset Process.....	33-35
Photogravure.....	36-39
Rotary Photogravure.....	40-44
Water-Color Printing.....	45-47
Silk-Screen, or Paint, Process.....	48-50
Electrotypes and Their Manufacture.....	51-64
Process of electrotyping; Wax-mold process; Lead-mold process of electrotyping; Nickel, and chromium-plated electrotypes; Distinguishing halftones from electro- types; Metal-base electrotypes; Anchored plates; Pat- ent blocks; Miscellaneous information about engrav- ings, electrotypes, and matrices.	
Printing.....	65-83
Composition.....	65-74
Definitions; Hand composition; Machine composition.	
Presswork.....	75-83
The make-ready; Slip-sheeting; Numbering devices; Printing presses; Stippling or pebbling; Paper.	