

ENGLISH LANGUAGE BOOK SOCIETY

Teach Yourself
**MECHANICAL
DRAUGHTSMANSHIP**

S. M. Hood

PRACTICAL BOOKS

TEACH YOURSELF
MECHANICAL
DRAUGHTSMANSHIP

By
S. M. HOOD
M.A.S., A.R.S.M.



THE ENGLISH LANGUAGE BOOK SOCIETY
and
THE ENGLISH UNIVERSITIES PRESS LTD
London

CONTENTS

| | |
|---|----|
| LESSON No. 1—EQUIPMENT | 11 |
| The Drawing Board—The T-square—Set-squares—Scales—Compasses—Spring Bows—Pencils—Students' Requirements—Drawing Paper—At the Drawing Board—Types of Lines—Lettering—Dimensioning—Framing the Drawing—Hints on Cleanliness and Order. EXERCISE. | |
| LESSON No. 2—GEOMETRICAL APPLICATION AND CONSTRUCTION | 21 |
| Use of Set-squares—Construction of Angles with set-squares—Construction and Division of Angles with Compasses—Finding the Centre of Circles—Angles in a Semicircle—Tangent to a Circle—Triangles, Scalene, Isosceles, Equilateral—Joining of Curves—Scales—Division of Lines—Plain Scale—Diagonal Scale. EXERCISE. | |
| LESSON No. 3—PROJECTION | 32 |
| Types of Projection—Comparison of First- and Third-angle Projection—First-angle Projection—Horizontal and Vertical Planes—Projection of Planes—Projection of Typical Solid—Completion of Views—Which Lines are True Length. EXERCISE. | |
| LESSON No. 4—PICTORIAL DRAWING | 44 |
| Types of Pictorial Drawing—Isometric and Oblique Axis—Isometric Cube—Isometric Scales—Isometric Block—Isometric Hexagonal Prism—Isometric Projection of Typical Solids—Isometric Circle—American Isometric Drawing of a Circle—Isometric Cylindrical Objects, Hollow Cylinder—Vertical Cylinder—Sphere—Isometric Curves—Examples of Isometric Projection—Oblique Drawing—Oblique Block—Oblique Hexagonal Prism—Oblique Cylindrical Objects—Hollow Cylinder—Vertical Cylinder—Examples of Oblique Projection. EXERCISE. | |
| LESSON No. 5—SECTIONS | 63 |
| Section Lines—Dimensioning and Lettering on Section Lines—Location of Sectioning Planes—Exceptions in Section Lining—Symmetrical Half Sections—Part Sections—Cross Sections—Sections of Geometrical Solids—Cube—Sections of Cube on Horizontal and Vertical Plane—Hexagonal Prism—Sections of Hexagonal Prism on Horizontal Plane—Triangular Prism—Sections of Triangular Prism on Vertical Plane—Pentagonal Prism—Sections of Pentagonal Prism on Inclined Plane—Square | |

The **ENGLISH LANGUAGE BOOK SOCIETY**, in addition to its low-priced editions of specialist works, publishes a variety of new series for the non-specialist.

Each volume has been selected for its high standard of accuracy and usefulness or interest, and is now available at a lower price than ever before.

If you would like to see other titles added to this 'Practical Books' Series or are interested in other subjects, send your suggestions and enquiries to:

*The English Language Book Society,
Box 295, Wimpole Street,
London, W.1.*

All books published by the Society carry this label—and the name of the appropriate series:



PRACTICAL BOOKS