ENGINEERING DRAWING
WITH WORKED EXAMPLES 1

F. Pickup, C.Eng., M.I.Prod.E.,
Lecturer at the Rolls Royce Technical College

Formerly Chief Examiner for A Level Technical Drawing
at the University of London

and

M. A. Parker

Lecturer in Charge of Technical Drawing
at the University of Ankara, Turkey
CONTENTS

Preface vii

1 LINES AND LETTERING 1

2 GEOMETRICAL CONSTRUCTIONS 2

3 PRINCIPLES OF TANGENCY 14

4 LOCI
  Ellipse—Parabola—Hyperbola—Cycloids—
  Trochoids—Involute—Helices—Mechanisms 20

5 ORTHOGRAPHIC PROJECTION
  First Angle—Third Angle 40

6 DIMENSIONING 60

7 SECTIONAL VIEWS
  Full Sections—Section Lines—Half Sections—
  Broken-out Sections—Revolved Sections—
  Removed Sections—Scrap Sections—Offset
  Sections—Aligned Sections 71

8 SCREW THREADS 86

9 NUTS, BOLTS AND STUDS 93

10 LOCKING DEVICES 103

11 KEYS AND COTTERED JOINTS 111

12 TRUE LENGTHS AND LAMINAE 117

13 ISOMETRIC PROJECTION 130

14 OBLIQUE PROJECTION 145

15 MACHINE DRAWING 151

Tables 178