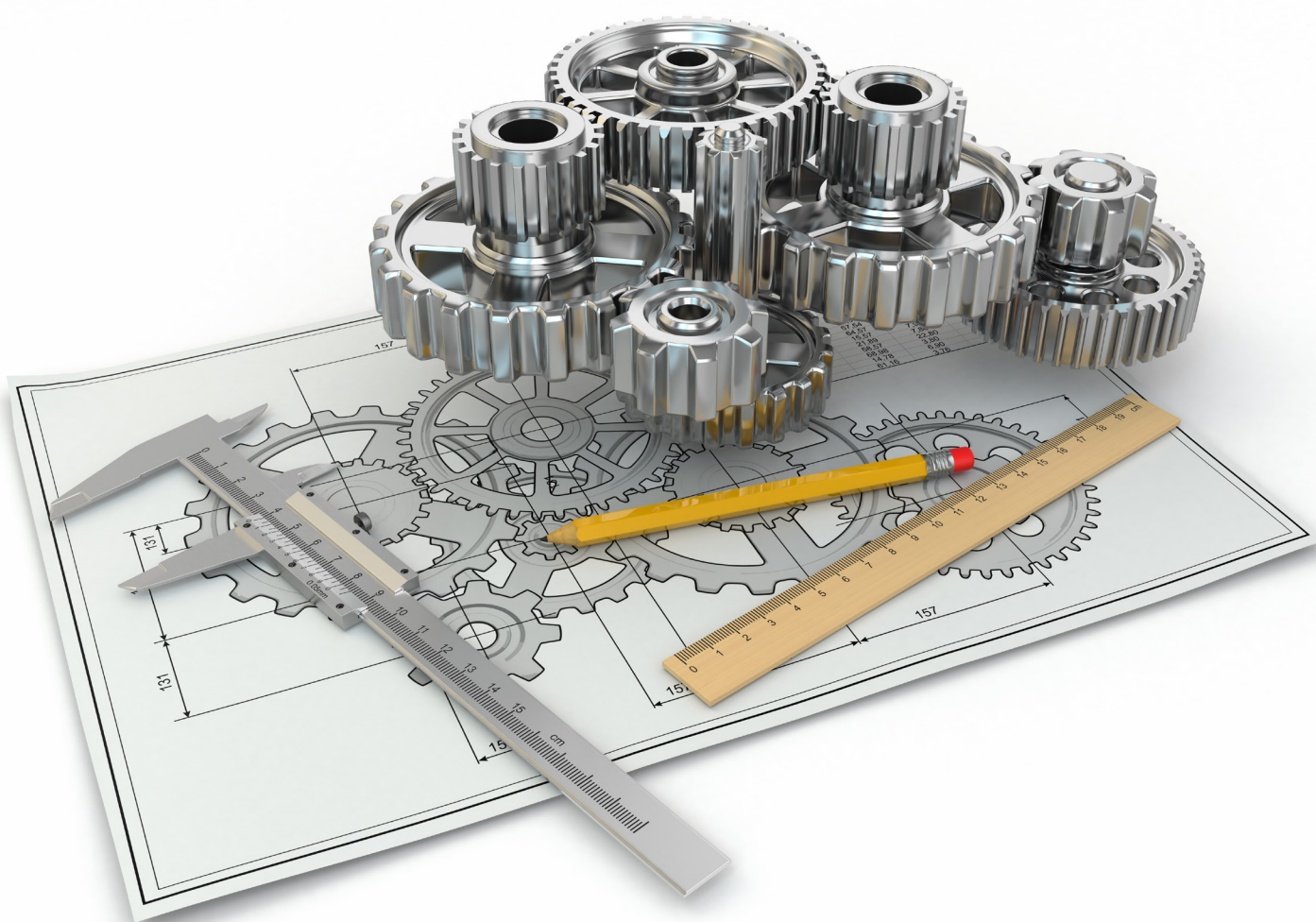


ENGINEERING GRAPHICS PRINCIPLES

WITH GEOMETRIC DIMENSIONING
AND TOLERANCING

Second Edition



E. Max Raisor FIAE



Better Textbooks. Lower Prices.
www.SDCpublications.com



ACCESS CODE
UNIQUE CODE INSIDE

Visit the following websites to learn more about this book:



[amazon.com](https://www.amazon.com)

[BARNES & NOBLE](https://www.barnesandnoble.com)

Table of Contents

About the Author	4
Table of Contents	5
Preface	6
Digital Content	6
Practice problems	7
Self-Evaluation Problems	7
Instructor's Manual	8
Examinations	8
Author's Note	9
Introduction	10
Historical Background	11
Measuring Unit Values: A Final Word	13
The Dynamics of Change	13
Overview	14
Orthographic Projection	14
Auxiliary Views	15
Sectioning Conventions	15
Coordinate Dimensioning and Tolerancing	16
Introduction to Geometric Dimensioning and Tolerancing	17
Tolerances of Form	17
Datums and Datum References	17
Datum Targets	18
Orientation Tolerances	18
Location Tolerances – General Rules and Applications	18
Profile Tolerances	19
Runout Tolerances	19
Geometric Tolerances—A General Review	20
Practice and Self-Evaluation Problems	21
Problems and Self Evaluations	
Orthographic Projection Problems	23
Orthographic Projection Self Evaluation	43
Auxiliary Views Problems	55
Auxiliary Views Self Evaluation	65
Sectioning Problems	75
Sectioning Self Evaluation	91
Coordinate Dimensioning and Tolerancing Problems	105
Coordinate Dimensioning and Tolerancing Self Evaluation	115
Introduction to Geometric Tolerancing Problems	131
Tolerances of Form Problems	141
Datums and Datum Targets Problems	161
Orientation Tolerances Problems	177
Tolerances of Location Problems	191
Tolerances of Profile Problems	207
Tolerances of Runout Problems	223