

TABLE OF CONTENTS

Acknowledgments.....	vii
Special Note to the Student.....	ix
About This Book.....	xi
Text Conventions.....	xiii
Icon and Graphic Conventions.....	xv
Introduction	
1 Drawing Standards.....	1
2 Dimensions, Tolerances, and Notes Used on Drawings.....	9
3 Directly Toleranced Dimensions and Geometric Dimensioning and Tolerancing (GD&T).....	21
4 General Dimensioning Symbols.....	37
GD&T Fundamentals	
5 Key GD&T Terms.....	47
6 Symbols and Modifiers.....	63
7 GD&T Rules.....	71
8 GD&T Concepts.....	89
Form	
9 Flatness Tolerance.....	101
10 Straightness Tolerance.....	115
11 Circularity (Roundness) Tolerance.....	131
12 Cylindricity Tolerance.....	143
Datum System	
13 The Datum System.....	153
14 Datum Targets.....	171
15 Size Datum Features – RMB.....	183
16 Size Datum Features – MMB.....	195
Orientation	
17 Perpendicularity Tolerance.....	213
18 Parallelism Tolerance.....	231
19 Angularity Tolerance.....	247
Location	
20 Position Tolerance – Introduction.....	263
21 Position Tolerance – RFS and MMC.....	279
22 Position Tolerance – Special Applications.....	295
23 Position Tolerance Calculations.....	315
Runout	
24 Circular and Total Runout Tolerances.....	325
Profile	
25 Profile Tolerance – Basic Concepts.....	343
26 Profile Tolerance Applications.....	355
Appendices	
A – The History of GD&T.....	377
B – The Significant Seven Questions.....	379
C – Standard Terms and Part Geometry.....	381
D – Boundary Interpretation.....	383
E – Bibliography.....	385
F – Glossary.....	387
G – Answers to Questions and Problems.....	397
Index.....	407