

Section title	Page	Section title	Page
What is GD & T ?	1	Datum targets	26
Why use GD & T ?	2	Datum target points	26
GD & T Basic concepts	3	Datum surface	27
Scope of this book	4	Datum axis	28
Controlling standards	5	Profile tolerances	30
Tolerance frame	6	Profile of a line	30
Applying to points	7	Profile of a surface	32
Applying to edges	8	Related orientation tolerances	34
Applying to axes	9	Parallel	34
Applying to surfaces	10	Perpendicularity	36
Theoretical Exact Dimensions	11	Angularity	38
Tolerance zones	13	Related location tolerances	40
GD & T symbols	15	Position	40
Form tolerances	16	Coaxiality	42
Straightness	16	Symmetry	44
Flatness	18	Related run-out tolerances	46
Roundness	20	Circular run-out	46
Cylindricity	22	Total run-out	48
Datums	24	Maximum material condition	50
Datum selection	24	Virtual condition	50
Datum identification	24	MMC shaft example	52
Datum considerations	25	MMC hole example	54
6 degrees of freedom	25	5 steps to apply GD & T	56
		Glossary	58
		Recommended reading	62