

## Contents

1	Careers in Machine Shop	1
2	Safety in the Machine Shop	17
3	Hand Tools for Bench Work	38
4	Basic Measuring and Layout Tools	70
5	Metrology	93
6	Metric Measurement	129
7	Drills and Drilling Processes	143
8	Engine Lathe Processes	171
9	Turret Lathes	225
10	Tapers and Angles	243
11	Screw Thread Processes	254
12	Band Machining	277
13	Shaper and Planer Processes	301
14	Milling Machine Processes	329
15	Grinding Machine Processes	377
16	Gears and Gearing	436
17	Fundamentals of Numerical Control	457
18	Special Machining Processes	485
19	Surface Finish and Surface Measurement	505
20	Heat-treatment and Testing of Metals	516
	Appendix	537
	Useful Data and Tables	538
	Supplementary References	560
vi	Index	561