

- Foreword p. vii
- Chapter 1 Applications of new technology in manufacturing p. 1
- 1.1 The importance of manufacturing to the economy of the United Kingdom p. 1
- 1.2 Production systems p. 32
- 1.3 Information technology p. 40
- 1.4 Optical fibres p. 51
- 1.5 New materials and components p. 54
- 1.6 Electronics p. 56
- 1.7 Control technology p. 59
- 1.8 Investigating new products p. 62
- Chapter 2 Working with a design brief p. 71
- 2.1 Originating product proposals from a given design brief p. 71
- 2.2 Finalizing proposals using feedback from presentations p. 92
- Chapter 3 Manufacturing products p. 123
- 3.1 Understanding a production plan p. 123
- 3.2 Teamwork p. 123
- 3.3 Preparing equipment and machinery p. 124
- 3.4 Processing materials and components p. 144
- 3.5 The assembly and finishing of materials to specification p. 184
- 3.6 Quality assurance applied to manufactured products p. 211
- 3.7 Safety in the workplace p. 223
- Chapter 4 Production planning, and quality assurance p. 247
- 4.1 Production planning p. 247
- 4.2 Calculating the cost of a product p. 262
- 4.3 Quality assurance p. 275
- Index p. 305