

1. Record Nr.	UNINA9910458786503321
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Titolo	Manufacturing science and technology [[electronic resource]] : manufacturing processes and machine tools // K. Vara Prasada Rao
Pubbl/distr/stampa	New Delhi, : New Age International, c2009
ISBN	1-282-45040-9 9786612450402 81-224-2938-6
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (399 p.)
Collana	Manufacturing Science and Technology
Soggetti	Manufacturing processes Machine-tools Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	<p>""Cover ""; ""Preface to the First Edition ""; ""Preface to the Second Edition ""; ""Contents ""; ""Part A Manufacturing Processes ""; ""Chapter 1 Foundry ""; ""1.1 Introduction ""; ""1.2 The Sequence of Steps Involved in Casting ""; ""1.3 Solidification of Castings ""; ""Questions ""; ""Chapter 2 Plastic Deformation Processes ""; ""2.1 Introduction ""; ""2.2 Differences Between Hot Working and Cold Working ""; ""2.3 Forging ""; ""2.4 Rolling ""; ""2.5 Extrusion ""; ""2.6 Metal Spinning ""; ""2.7 Wire Drawing ""; ""2.8 Tube Drawing ""; ""2.9 Stretch Forming ""; ""Questions ""</p> <p>""Chapter 3 Welding """"3.1 Introduction ""; ""3.2 Classification of Welding Processes ""; ""3.3 Soldering and Brazing ""; ""3.4 Defects in Welding ""; ""3.5 Welding Equations ""; ""3.6 Heat Affected Zone (HAZ) ""; ""Questions ""; ""Chapter 4 Powder Metallurgy ""; ""4.1 Introduction ""; ""4.2 Characteristics of Metal Powder ""; ""4.3 Basic Steps of the Process ""; ""4.4 Design Considerations for Powder Metallurgy Parts ""; ""4.5 Advantages of Powder Metallurgy ""; ""4.6 Limitation of Powder Metallurgy ""; ""4.7 Applications of Powder Metallurgy ""; ""Questions ""; ""Chapter 5 Plastics ""</p> <p>""5.1 Introduction """"5.2 Types of Plastics ""; ""5.3 Comparison Between</p>

Thermosetting Plastics and Thermoplastics ""; ""5.4 Advantages of Plastics ""; ""5.5 Disadvantages ""; ""5.6 Applications of Plastics ""; ""5.7 Methods of Processing ""; ""5.8 Welding of Plastics ""; ""5.9 Machining of Plastics ""; ""Questions ""; ""Chapter 6 Presses ""; ""6.1 Introduction ""; ""6.2 Types of Presses ""; ""6.3 Selection of Press ""; ""6.4 Components of Simple Die ""; ""6.5 Types of Press Tools or Types of Dies ""; ""6.6 Cutting Action in a Die and Punch Operations (Shearing Action) ""
""6.7 Punch Force """"6.8 Control of Hole and Blank Sizes by Clearance Location ""; ""6.9 Angular Clearance ""; ""6.10 Sheet Metal Operations ""; ""6.11 Scrap Strip Layout ""; ""Questions ""; ""Appendix I: Objective Type Questions""; ""Part B Machine Tools ""; ""Chapter 7 Fundamentals of Metal Cutting ""; ""Introduction ""; ""7.2 Classification of Cutting Tools ""; ""7.3 Elements of Single Point Tool ""; ""7.4 Geometry of a Single Point Tool (Tool Angles) ""; ""7.5 Tool Signature ""; ""7.6 Tool Nomenclature Systems ""; ""7.7 Types of Metal Cutting Process ""
""7.8 Comparison of Orthogonal and Oblique Cutting Processes """"7.9 Chip Formation ""; ""7.10 Types of Chips ""; ""7.11 Chip Control ""; ""7.12 Chip Thickness Ratio ""; ""7.13 Forces on the Chip ""; ""7.14 Velocity Ratio ""; ""7.15 Machinability of Metals ""; ""7.16 Tool Life ""; ""7.17 Tool Wear ""; ""7.18 Kinds of Tool Damage ""; ""7.19 Cutting Fluids ""; ""7.20 Types of Cutting Fluids ""; ""7.21 Methods of Application of Cutting Fluids ""; ""7.22 Selection of Cutting Fluids ""; ""Questions ""; ""Chapter 8 Lathe ""; ""8.1 Introduction ""; ""8.2 Principal Parts of Lathe ""
""8.3 Specification of Lathe ""
