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Nota di contenuto	ENGINEERS' DATA BOOK; Contents; Foreword; Preface; Introduction - The Role of Technical Standards; Section 1: Engineering Careers; 1.1 Introduction: what is an engineer?; 1.2 A rough guide to industry breakdown; 1.3 Training and professional development; 1.4 Degrees of (engineering) excellence; 1.5 Degrees and how to pass them; 1.6 Do you have any . . . experience?; 1.7 Final cut - job interviews; Section 2: Units; 2.1 The Greek alphabet; 2.2 Units systems; 2.3 Units and conversions; 2.4 Consistency of units; 2.5 Dimensional analysis; 2.6 Essential engineering mathematics 2.7 Maths and the real world?Section 3: Engineering Design - Process and Principles; 3.1 Engineering problem-solving; 3.2 Problem types and methodologies; 3.3 Design principles; 3.4 The engineering design process; 3.5 Design as a systematic activity (the 'pugh' method); 3.6

The innovation model; 3.7 Creativity tools; 3.8 The product design specification (PDS); 3.9 Presenting technical information; 3.10 The anatomy of mechanical design; 3.11 Safety in design - principles and practice; 3.12 Design by nature - project toucan; Section 4: Basic Mechanical Design; 4.1 Engineering abbreviations
4.2 Datums and tolerances - principles4.3 Toleranced dimensions; 4.4 General tolerances; 4.5 Holes; 4.6 Screw threads; 4.7 Limits and fits; 4.8 Surface finish; Section 5: Motion; 5.1 Making sense of equilibrium; 5.2 Motion equations; 5.3 Newton's laws of motion; 5.4 Simple harmonic motion (SHM); 5.5 Understanding acceleration; 5.6 Dynamic balancing; 5.7 Vibration; 5.8 Machine vibration; 5.9 Machinery noise; Section 6: Deformable Body Mechanics; 6.1 Quick reference - mechanical notation; 6.2 Engineering structures - so where are all the pin joints?; 6.3 Simple stress and strain
6.4 Simple elastic bending6.5 Slope and deflection of beams; 6.6 Torsion; 6.7 Thin cylinders; 6.8 Cylindrical vessels with hemispherical ends; 6.9 Thick cylinders; 6.10 Buckling of struts; 6.11 Flat circular plates; 6.12 Stress concentration factors; Section 7: Material Failure; 7.1 How materials fail; 7.2 LEFM method; 7.3 Multi-axis stress states; 7.4 Fatigue; 7.5 Factors of safety; 7.6 United states practice; 7.7 Ultimate jigsaw - what everything is made of; Section 8: Thermodynamics and Cycles; 8.1 Quick reference: symbols - thermodynamics; 8.2 Basic thermodynamic laws; 8.3 Entropy
8.4 Enthalpy8.5 Other definitions; 8.6 Cycles; 8.7 The steam cycle; 8.8 Properties of steam; 8.9 Reference information; 8.10 The gas turbine (GT) cycle; Section 9: Basic Fluid Mechanics and Aerodynamics; 9.1 Basic properties; 9.2 Flow equations; 9.3 Flow regimes; 9.4 Boundary layers; 9.5 Isentropic flow; 9.6 Compressible one-dimensional flow; 9.7 Normal shock waves; 9.8 Axisymmetric flows; 9.9 Drag coefficients; 9.10 General airfoil theory; 9.11 Airfoil coefficients; 9.12 Pressure distributions; 9.13 Aerodynamic centre; 9.14 Centre of pressure; 9.15 Supersonic conditions
9.16 Wing loading: semi-ellipse assumption

Sommario/riassunto

A completely revised and expanded fourth edition of this best-selling pocket guide. Engineers' Data Book provides a concise and useful source of up-to-date essential information for the student or practising engineer. Updated, expanded editionEasy to useHandy reference guideCore technical data

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