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International Books in Print 1997

Strength Of Material R. S. Khurmi 2008

Crystals, Defects and Microstructures Rob Phillips 2001-02-22 Materials science has emerged as one of the central pillars of the modern physical sciences and engineering, and is now even beginning to claim a role in the biological sciences. A central tenet in the analysis of materials is the structure-property paradigm, which proposes a direct connection between the geometric structures within a material and its properties. The increasing power of high-speed computation has had a major impact on theoretical materials science and has permitted the systematic examination of this connection between structure and properties.

Principles of Engineering Mechanics [Concise Edition] RS Khurmi | N Khurmi Principles of Engineering Mechanics is written keeping in mind the requirements of the Students of Degree, Diploma and A.M.I.E. (I) classes. The objective of this book is to present the subject matter in a most concise, compact, to-the-point and lucid manner. All along the approach to the subject matter, every care has been taken to arrange matter from simpler to harder, known to unknown with full details and illustrations. A large number of worked examples, mostly examination questions of Indian as well as foreign universities and professional examining bodies, have been given and graded in a systematic manner and logical sequence, to assist the students to understand the text of the subject. At the end of each chapter, a few exercises have been added, for the students, to solve them independently. Answers to these problems have been provided.

Materials for Engineering J Martin 2006-04-28 This third edition of what has become a modern classic presents a lively overview of Materials Science which is ideal for students of Structural Engineering. It contains chapters on the structure of engineering materials, the determination of mechanical properties, metals and alloys, glasses and ceramics, organic polymeric materials and composite materials. It contains a section with thought-provoking questions as well as a series of useful appendices. Tabulated data in the body of the text, and the appendices, have been selected to increase the value of Materials for engineering as a permanent source of reference to readers throughout their professional lives. The second edition was awarded Choice's Outstanding Academic Title award in 2003. This third edition includes new information on emerging topics and updated reading lists.

MATERIALS SCIENCE AND ENGINEERING V. RAGHAVAN 2015-05-01 This well-established and

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widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on 'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on 'Nanomaterials' describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers

A Textbook of Thermal Engineering RS Khurmi | JK Gupta 2008 Two new chapters on general Thermodynamic Relations and Variable Specific Heat have been Added. The mistake which had crept in have been eliminated. We wish to express our sincere thanks to numerous professors and students, both at home and abroad, for sending their valuable suggestions and also for recommending the book to their students and friends.

A Textbook of Engineering Mechanics RS Khurmi | N Khurmi [A Textbook of Engineering Mechanics] is a must-buy for all students of engineering as it is a lucidly written textbook on the subject with crisp conceptual explanations aided with simple to understand examples. Important concepts such as Moments and their applications, Inertia, Motion (Laws, Harmony and Connected Bodies), Kinetics of Motion of Rotation as well as Work, Power and Energy are explained with ease for the learner to really grasp the subject in its entirety. A book which has seen, foreseen and incorporated changes in the subject for 50 years, it continues to be one of the most sought after texts by the students.

Engineering Materials RK Rajput 2008 The book has been thoroughly revised. Several new articles have been added, specifically, in chapters on mortar, Concrete, Paint: Varnishes, Distempers and Antitermite treatment to make the book still more comprehensive and a useful unit for the students preparing for the examination in the subject.

Tribology in Industries Srivastava, Sushil Kumar 2004-08 A Textbook-cum-reference book for Undergraduate, Graduate and Postgraduate students of Mechanical, Electrical, Maintenance and Production Engineering disciplines. This book would also be of immense help to various practising engineers, technologists, managers and supervisors engaged in the maintenance, operation and upkeep of the different machines, equipments, systems and plants of various industries.

Bioinspired Materials Science and Engineering Guang Yang 2018-08-21 An authoritative introduction to the science and engineering of bioinspired materials Bioinspired Materials Science and Engineering

offers a comprehensive view of the science and engineering of bioinspired materials and includes a discussion of biofabrication approaches and applications of bioinspired materials as they are fed back to nature in the guise of biomaterials. The authors also review some biological compounds and shows how they can be useful in the engineering of bioinspired materials. With contributions from noted experts in the field, this comprehensive resource considers biofabrication, biomacromolecules, and biomaterials. The authors illustrate the bioinspiration process from materials design and conception to application of bioinspired materials. In addition, the text presents the multidisciplinary aspect of the concept, and contains a typical example of how knowledge is acquired from nature, and how in turn this information contributes to biological sciences, with an accent on biomedical applications. This important resource: Offers an introduction to the science and engineering principles for the development of bioinspired materials Includes a summary of recent developments on biotemplated formation of inorganic materials using natural templates Illustrates the fabrication of 3D-tumor invasion models and their potential application in drug assessments Explores electroactive hydrogels based on natural polymers Contains information on turning mechanical properties of protein hydrogels for biomedical applications Written for chemists, biologists, physicists, and engineers, *Bioinspired Materials Science and Engineering* contains an indispensable resource for an understanding of bioinspired materials science and engineering.

Material Science and Metallurgy: Jindal 2011 *Material Science and Metallurgy* is presented in a user-friendly language and the diagrams give a clear view and concept. Solved problems, multiple choice questions and review questions are also integral part of the book. The contents of the book are

A Textbook of Strength of Materials RK Rajput A comprehensive and lucidly written book, *Strength of Materials* captures the syllabus of most major Indian Universities and competitive examinations as well. The book discusses everything under solids and its mechanics (such as providing different aspects of stresses) and provides the reader with a deeper interest in the subject – all within aptly formed chapters. It also contains typical examples (useful for students appearing in competitive examinations in particular and other students in general), highlights, objective type questions and a large number of unsolved examples for a complete grasp of the subject.

Maintenance Engineering (Principles, Practices and Management) Srivastava, Sushil Kumar 2006 This book is highly useful for the students of B.E./B.Tech. of Punjab Technological University, Jalandhar and also for the other Technological Universities of India as per New Syllabus. Accordingly, few sample questions are given at the end of each chapter. The chapter and topics, covered in this book, are expected to encompass the syllabus that may be needed by various colleges/ institutions in maintenance field. It also serves as a reference book for students of all other engineering disciplines in universities, colleges, institutions and also vast numbers of engineer, managers supervisors, technologists and other persons working in or associated with maintenance and upkeep of machines, equipments and systems in any shop, plant or industry.

Materials Science Compendium Dr. A. K. Shrivastava The study of science of materials has become in recent years an integral part of virtually all university courses in engineering. The subject of material science is an essential component of engineering education. It was with this in mind that present book was written. This book is primarily aimed at explaining the basic concepts of the science of materials. This is an elementary textbook on material science for graduate students of science and engineering. This book is suitable for students and engineers working in the material science field. A design engineer must have a sound knowledge of the basic concepts of material science. The presentation is concise, clear and lucid. The book covers the syllabus of undergraduate engineering courses of Indian

Universities. A number of solved numerical problems have been included in the book to help the students in their learning and understanding process.

Engineering Materials and Metallurgy RK Rajput 2006 This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple, lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way. The book comprises five chapters (excluding basic concepts) in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th Semester Mechanical, Production, Automobile Engineering and 2nd semester Mechanical disciplines of Anna University.

Combined Cooling, Heating, and Power Systems Yang Shi 2017-09-05 A comprehensive review of state-of-the-art CCHP modeling, optimization, and operation theory and practice. This book was written by an international author team at the forefront of combined cooling, heating, and power (CCHP) systems R&D. It offers systematic coverage of state-of-the-art mathematical modeling, structure optimization, and CCHP system operation, supplemented with numerous illustrative case studies and examples. CCHP systems are an exciting emerging energy technology offering significant economic and environmental benefits. *Combined Cooling, Heating, and Power Systems: Modelling, Optimization, and Operation* is a timely response to ongoing efforts to maximize the efficiency of that technology. It begins with a survey of CCHP systems from the technological and societal perspectives, offering readers a broad and stimulating overview of the field. It then digs down into topics crucial for optimal CCHP operation. Discussions of each topic are carefully structured, walking readers from introduction and background to technical details. A set of new methodologies for the modeling, optimization and control of CCHP systems are presented within a unified framework. And the authors demonstrate innovative solutions to a variety of CCHP systems problems using new approaches to optimal power flow, load forecasting, and system operation design. Provides a comprehensive review of state-of-the-art of CCHP system development. Presents new methodologies for mathematical modeling, optimization, and advanced control. Combines theoretical rigor with real-world application perspectives. Features numerous examples demonstrating an array of new design strategies. Reflects the combined experience of veteran researchers in the field whose contributions are well recognized within the energy community. Offers excellent background reading for students currently enrolled in the growing number of courses on energy systems at universities worldwide. Timely, authoritative, and offering a balanced presentation of theory and practice, *Combined Cooling, Heating, and Power Systems: Modelling, Optimization, and Operation* is a valuable resource for researchers, design practitioners, and graduate students in the areas of control theory, energy management, and energy systems design.

The Automobile Harbans Singh Reyat 2004-07 The present edition includes technical data of new Indian cars and trucks. A chapter 'Air Conditioning of Automobiles' also has been added. Some new topics such as Rotary Distributor Fuel Injection Pump, Glow Plugs, Metric Size Tyres, etc., have been incorporated. The glossary of technical terms has been expanded. Some Questions have been modified keeping in view new models of cars, trucks, buses, etc. At the end, a Survey Report has been given to provide information about the modern trends in Indian automobile manufacturing.

Hydraulics, Fluid Mechanics and Hydraulic Machines RS Khurmi | N Khurmi 1987-05 The favourable and warm reception, which the previous editions and reprints of this popular book has enjoyed all over India and abroad has been a matter of great satisfaction for me.

Textbook of Strength of Materials [Concise Edition] RS Khurmi | N Khurmi □ A Textbook of Engineering Mechanics □ is a must-buy for all students of engineering as it is a lucidly written textbook

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on the subject with crisp conceptual explanations aided with simple to understand examples. Important concepts such as Moments and their applications, Inertia, Motion (Laws, Harmony and Connected Bodies), Kinetics of Motion of Rotation as well as Work, Power and Energy are explained with ease for the learner to really grasp the subject in its entirety. A book which has seen, foreseen and incorporated changes in the subject for 50 years, it continues to be one of the most sought after texts by the students.

Publisher's Monthly 1997

Contemporary Advances in Science and Technology Vol-II Dr. Raman Singh 2022-05-25 The current volume (Vol -II) of Contemporary Advances in Science & Technology focuses on Sustainable Chemistry and Technology. The volume is intended to serve as a resource for those with an interest in green chemistry and sustainable technologies, including postgraduate students, academic researchers, and industry professionals.

A Textbook of Strength of Materials RS Khurmi | N Khurmi □Strength of Materials: Mechanics of Solids in SI Units□ is an all-inclusive text for students as it takes a detailed look at all concepts of the subject. Distributed evenly in 35 chapters, important focusses are laid on stresses, strains, inertia, force, beams, joints and shells amongst others. Each chapter contains numerous solved examples supported by exercises and chapter-end questions which aid to the understanding of the concepts explained. A book which has seen, foreseen and incorporated changes in the subject for close to 50 years, it continues to be one of the most sought after texts by the students for all aspects of the subject.

Material Science and Processes R. S. Khurmi 1991

Material Science (Polytechnic) R. K. Rajput 2009-01-01

Engineering Materials RK Rajput 2008 The book has been thoroughly revised. Several new articles have been added, specifically, in chapters in mortar, Concrete, Paint: Varnishes, Distempers and Antitermite treatment to make the book to still more comprehensive and a useful unit for the students preparing for the examination in the subject.

Carbon Fibers Soo-Jin Park 2018-05-30 The updated and expanded second edition of this book explores the physical and mechanical properties of carbon fibers and their composites, their manufacture and processing, and their current and emerging applications. Over 10 chapters, the book describes manufacturing methods, surface treatment, composite interfaces, and microstructure-property relationships with underlying fundamental physical and mechanical principles. It discusses the application of carbon materials in delivering improved performance across a diverse range of fields including sports, wind energy, oil and gas, infrastructure, defence, and the aerospace, automotive and semiconductor industries. This new edition introduces chapters related to the manufacturing of carbon/carbon composites (C/C composites), antioxidation characteristics of C/C composites, and their applications. Furthermore, it addresses the effect of graphene and carbon nanotubes on the physical and chemical properties of carbon fibers. A final chapter looks at the emerging and future prospects for carbon fiber technology.

Materials Science RS Khurmi | RS Sedha 2008 We take an opportunity to present 'Material Science' to the students of A.M.I.E.(I) Diploma stream in particular, and other engineering students in general. The object of this book is to present the subject matter in a most concise, compact, to the point and lucid manner. While preparing the book, we have constantly kept in mind the requirements of A.M.I.E(I)

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students, regarding the latest trend of their examination. To make it really useful for the A.M.I.E.(I) students, the solutions of their complete examination has been written in an easy style, with full detail and illustrations.

Concepts in Physical Metallurgy Lavakumar Avala 2017-05-02 The progress of civilization can be, in part, attributed to their ability to employ metallurgy. This book is an introduction to multiple facets of physical metallurgy, materials science, and engineering. As all metals are crystalline in structure, it focuses attention on these structures and how the formation of these crystals are responsible for certain aspects of the material's chemical and physical behaviour. *Concepts in Physical Metallurgy* also discusses the mechanical properties of metals, the theory of alloys, and physical metallurgy of ferrous and non-ferrous alloys.

A Textbook of Machine Design RS Khurmi | JK Gupta 2005 The present multicolor edition has been thoroughly revised and brought up-to-date. Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality, and to bridge the gap between theory and practice. This book has already been included in the 'suggested reading' for the A.M.I.E.(India) examinations.

Nanofabrication for Smart Nanosensor Applications Fernando Gomes de Souza Junior 2020-06-18 *Nanofabrication for Smart Nanosensor Applications* addresses the design, manufacture and applications of a variety of nanomaterials for sensing applications. In particular, the book explores how nanofabrication techniques are used to create more efficient nanosensors, examines their major applications in biomedicine and environmental science, discusses the fundamentals of how nanosensors work, explores different nanofabrication techniques, and comments on toxicity and safety issues relating to the creation of nanosensors using certain nanomaterial classes. This book is an important resource for materials scientists and engineers who want to make materials selection decisions for the creation of new nanosensor devices. Summarizes current research and applications of a variety of nanofabrication techniques for the creation of efficient sensing devices Provides readers with an understanding of surfaces and interfaces, a key challenge for those working on hybrid nanomaterials, carbon nanotubes, graphene, polymers and liquid crystal electro-optical imaging Discusses the variability and sight recognition of biopolymers, such as DNA molecules, which offer a wide range of opportunities for the self-organization of nanostructures into much more complex patterns

Textbook of Thermal Engineering J. K. Gupta 1997

Strength Of Materials R. S. Khurmi 2008-01-01 The present edition of this book is in S.I. Units To Make the book really useful at all levels, a number of articles as well as solved and unsolved examples have been added. The mistake, which had crept in, have been eliminated. Three new chapters of Thick Cylindrical and Spherical shells, Bending of Curved Bars and Mechanical Properties of Materials have also been added.

Hydraulics and Pneumatics Controls Shanmuga Sundaram 2006 For B.E./B.Tech. students of Anna and Other Technical Universities of India

Material Science & Engineering R. K. Rajput 2009

Engineering Materials 1 Michael F. Ashby 1996

Steam Tables RS Khurmi | N Khurmi 2008 The Favourable and warm reception, which the previous editions and reprints of this booklet have enjoyed at home and abroad, has been a matter of great satisfaction to me.

Theory of Machines RS Khurmi | JK Gupta 2008 While writing the book, we have continuously kept in mind the examination requirements of the students preparing for U.P.S.C. (Engg. Services) and A.M.I.E. (I) examinations. In order to make this volume more useful for them, complete solutions of their examination papers up to 1975 have also been included. Every care has been taken to make this treatise as self-explanatory as possible. The subject matter has been amply illustrated by incorporating a good number of solved, unsolved and well graded examples of almost every variety.

Elements of Mechanical Engineering (PTU) Sadhu Singh 2009 The present book on Elements of Mechanical Engineering is meant for the engineering students of all branches at their first year level. It covers the new syllabus of Panjab Technical University, Jalandhar. However, it shall be useful to students of other Universities also. The book covers the basic principles of Thermodynamics, zeroth law of Thermodynamics and the concept of temperature in the first chapter.

Theory of Structures RS Khurmi | N Khurmi 2000-11 I feel elevated in presenting the New edition of this standard treatise. The favourable reception, which the previous edition and reprints of this book have enjoyed, is a matter of great satisfaction for me. I wish to express my sincere thanks to numerous professors and students for their valuable suggestions and recommending the patronise this standard treatise in the future also.