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A Textbook of Fluid Mechanics and Hydraulic Machines Engineering Mechanics A Textbook of Fluid Mechanics and Hydraulic Machines A Textbook of Fluid Mechanics LPSPE A Textbook of Engineering Mechanics A Textbook of Fluid Mechanics A Textbook of Applied Mechanics Statistical Mechanics Solid and Fluid Mechanics Foundation of Mechanical Engineering, 4th Ed. A Textbook of Fluid Mechanics Mechanical Statistical Mechanics Hydraulic Machines A Textbook of Engineering Mechanics A Textbook of Strength of Materials A Textbook of Hydraulic Machines Statistical Mechanics A Textbook of Fluid Mechanics and Hydraulic Machines, Mechanical Engineering A Text Book of Theory of Machines Hydraulic Machines: Fluid Machinery Applied Mechanic (Engineering Mechanic) Engineering Mechanics and Strength of Materials Solid & Fluid Mechanics Text Book of Fluid Mechanics and Hydraulic Machines A Textbook of Fluid Mechanics and Hydraulic Machines Fluid Mechanics Engineering Mechanics Mechanical Engineering (O.T.) A Text Book of Fluid Mechanics and Hydraulic Machines A Text Book of Fluid Mechanics and Hydraulic Machines Engineering Thermodynamics ENGINEERING MECHANICS. STATISTICAL MECHANICS Basics of Mechanical Engineering Basic Mechanical Engineering The Theory of Relativity A Textbook of Strength of Materials Material Science and Processes

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. Basics of Mechanical Engineering systematically develops the concepts and principles essential for understanding engineering thermodynamics, mechanics and strength of materials. This book is meant for first year B. Tech students of various technical universities. It will also be helpful for candidates preparing for various competitive examinations. Hydraulic Machines (Fluid Machinery) has been designed as a textbook for engineering students specializing in mechanical, civil, electrical, hydraulics, chemical and power engineering. The highlights of the book are simple language supported by analytical and graphical illustrations. A large number of theory questions and numerical problems with solution hints have been annexed at the end of every chapter. A large number of objective questions have been included to help the students opting for competitive examinations. Five case studies based on research have been included which can be advantageously used by practising engineers pursuing research design and consultancy careers. Complete design of hydraulic machines has been demonstrated with the help of suitable examples. The book has been divided into six parts containing 13 chapters. Material Science and Processes is a core subject having close relation with all branches of Engineering. Needless to emphasise, this new book has been designed a self learning capsule. With this aim in view, the material has been organised in a logical order and line diagrams have incorporated to enable to students to thoroughly master the subject. The contents of the book has relevance with the subject prescribed by JNVU, Rajasthan University and Institution of Engineers as well as to the courses of study prescribed by various universities of India. With a large number of objective type multiple-choice questions, this book was written in a simple and easy-to-follow language so that even an average student can grasp the subject matter by self-study. -- Divided in two parts, "A Textbook of Fluid Mechanics and Hydraulic Machines" is one of the most exhaustive texts on the subject for close to 20 years. For the students of Mechanical Engineering, it can easily be used as a reference text for other courses as well. Important topics ranging from Fluid Dynamics, Laminar Flow and Turbulent Flow to Hydraulic Turbines and Centrifugal pumps are well explained in this book. A total of 23 chapters (combined both units) followed by two special chapters of 'Universities' Questions (Latest) with Solutions' and 'GATE and UPSC Examinations' Questions with Answers/Solutions' after each unit also make it an excellent resource for aspirants of various entrance examinations. International Series in Natural Philosophy, Volume 45: Statistical Mechanics discusses topics relevant to explaining the physical properties of matter in bulk. The book is comprised of 13 chapters that primarily focus on the equilibrium states of physical systems. Chapter 1 discusses the statistical basis of thermodynamics, and Chapter 2 covers the elements of ensemble theory. Chapters 3 and 4 tackle the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while Chapter 6 reviews the theory of simple gases. Chapters 7 and 8 discuss the ideal Bose and Fermi systems. The book also covers the cluster expansion, pseudopotential, and quantized field methods. The theory of phase transitions and fluctuations are then discussed. The text will be of great use to researchers who wants to utilize statistical mechanics in their work. Written primarily for the students of Civil and Mechanical Engineering, "A Textbook of Hydraulic Machines" has been written in lucidly and captures the essence in an apt and non-repetitive manner. Aided by a number of solved problems, including typical examples from examination point of view, the book has been a benchmark in the subject for close to 20 years. The material in the book has been presented in a very simple but effective language in order to enable students to master the subject matter thoroughly without coming across the hurdle of highly technical language. About 300 solved and unsolved examples have been incorporated. It contents 9 chapters. SI units have been consistently used throughout the book. A Textbook of Fluid Mechanics" provides a comprehensive coverage of the syllabus of Fluid Mechanics for different technical universities in India. Fluid mechanics has several categories, such as include Fluid kinematics, Fluid statics and Fluid dynamics. A total of 16 chapters followed by two special chapters of 'Universities' Questions (Latest) with Solutions' and 'GATE and UPSC Examinations' Questions with Answers/Solutions' after each unit also make it an excellent resource for aspirants of various entrance examinations. This book an Engineering Thermodynamics presents the principles and applications of the subject and covers the entire syllabus prescribed by various universities for undergraduate students. Needles to emphasise, this new book has been designed as a self learning capsule. With this aim the material has been organised in a logical order with lots of

illustrative examples to enable students to thoroughly master the subject. The material in the book has been presented in a very simple but effective language in order to enable students to master the subject matter thoroughly without coming across the hurdle of highly technical language. Needless to emphasise, this book has been designed as a self learning capsule. With this aim the material has been organised in a logical order with lots of illustrative examples to enable students to thoroughly master the subject. Chapter 1. Properties of Fluids Chapter 2. Pressure and Its Measurement Chapter 3. Hydrostatic Forces on Surfaces Chapter 4. Buoyancy and Floatation Chapter 5. Kinematics of Flow and Ideal Flow Chapter 6. Dynamics of Fluid Flow Chapter 7. Orifices and Mouthpieces Chapter 8. Notches and Weirs Chapter 9. Viscous Flow Chapter 10. Turbulent Flow Chapter 11. Flow Through Pipes Chapter 12. Dimensional and Model Analysis Chapter 13. Boundary Layer Flow Chapter 14. Forces on Submerged Bodies Chapter 15. Compressible Flow Chapter 16. Flow in Open Channels Chapter 17. Impact of Jets and Jet Propulsion Chapter 18. Hydraulic Machines - Turbines Chapter 19. Centrifugal Pumps Chapter 20. Reciprocating Pumps Chapter 21. Fluid System Objective Type Questions Appendix Subject Index About the Book: This book is designed as a textbook according to the updated syllabus of various Indian universities. It is equally useful for various competitive examinations and for the first year engineering students. All the 16 chapters of this book contain suitable diagrams, worked-out examples and related questions-answers, to help students in the comprehension and appreciation of the concepts. Contents: Measurement Force and Motion Dynamics of Circular Motion and the Gravitational Field Work, Energy and Momentum Linear and Angular Momentum Collision Rotational Kinematics. This treatise on fluid mechanics, contains comprehensive treatment of the subject matter in simple, lucid and direct language and envelopes a large number of solved problems properly graded, including typical examples from examination point of view. The book comprises 16 chapters. All chapters of the book are saturated with much needed text supported by simple and self-explanatory figures and a large number of worked examples including Typical Examples (for competitive examinations). At the end of each chapter Highlights, objective Type Questions, Theoretical Questions and Unsolved Examples have been added to make the book a comprehensive and a complete unit in all respects. Statistical Mechanics is an integral part of theoretical physics, and this book aims at presenting the fundamentals of statistical mechanics in a clear and concise manner. The book begins with a clear exposition of classical as well as quantum equilibrium statistical mechanics. Then it moves on to give insights into the Gibbs canonical distribution, the grand canonical distribution, ideal Bose gas, ideal Fermi gas, and imperfect gases. The text also delves into certain topics of special interest, such as phase-transitions, Ising model, and liquid Helium. The book concludes with a discussion of some selected topics of non-equilibrium statistical mechanics. Primarily intended as a text for postgraduate students of physics, it would also prove useful for students at the undergraduate level. Statistical Mechanics, Fourth Edition, explores the physical properties of matter based on the dynamic behavior of its microscopic constituents. This valuable textbook introduces the reader to the historical context of the subject before delving deeper into chapters about thermodynamics, ensemble theory, simple gases theory, Ideal Bose and Fermi systems, statistical mechanics of interacting systems, phase transitions, and computer simulations. In the latest revision, the book's authors have updated the content throughout, including new coverage on biophysical applications, updated exercises, and computer simulations. This updated edition will be an indispensable to students and researchers of statistical mechanics, thermodynamics, and physics. Retains the valuable organization and trusted coverage of previous market-leading editions Includes new coverage on biophysical applications and computer simulations Offers Mathematica files for student use and a secure solutions manual for qualified instructors Covers Bose-Einstein condensation in atomic gases, Thermodynamics of the early universe, Computer simulations: Monte Carlo and molecular dynamics, Correlation functions and scattering, Fluctuation-dissipation theorem and the dynamical structure factor, and much more Foundation of Mechanical Engineering is solely written with the view to help B.E. I year students to master the difficult concepts. Needless to emphasise, this new book has been designed a self learning capsule. With this aim in view, the material has been organised in a logical order and lots of solved problems and line diagrams have been incorporated to enable students to thoroughly master of the subject. It is believed that this book, solely for B.E. I year students of all branches of Engineering, will captivate the attention of senior students as well as teachers. This book has been written specifically to meet exhaustively the requirements of the subject of Solid and Fluid Mechanics for 1st year B.E. examination (EEE, EIE, ICE courses) of Anna University, Tamil Nadu, effective from 2006-07 session. This book has been divided into 5 units containing 21 chapters in all. The book includes comprehensive treatment of the subject matter under wide range of topics mentioned in the syllabus, with a large number of solved examples to support the text. Besides this, Highlights, Objective Type Questions, Theoretical Questions and Unsolved Examples have been added at the end of each chapter to make the book a comprehensive unit in all respects. Graduate-level text elaborates on physical ideas underlying relativity, examining special theory (space-time transformations, four-dimensional formulations, mechanics, optics, electromagnetism), and general theory (space-time continuum, gravitation, experiments, and relativistic cosmology). 1974 edition. For the students of Polytechnic Diploma Courses in Engineering & Technology. Numerous solved problems, questions for self examination and problems for practice are given in each chapter. Includes eight Laboratory Experiments. Engineering Mechanics has been designed as per updated and new syllabus of various technical universities and engineering colleges. The book systematically develops the concepts and principles essential for understanding the subject. The difficulties usually faced by new engineering students have been taken care of while preparing the book. A large number of numerical problems have been selected from university and competitive examination papers and question banks, properly graded, solved and arranged in various chapters. The present book has been divided in five parts: Two-Dimensional Force System Beams and Trusses Moment of Inertia Dynamics of Rigid Body Stress and Strain Analysis The highlights of the book are: Comparison tables and illustrative drawings Exhaustive question bank on theory problems at the end of every chapter A large number of solved numerical examples SI units used throughout Statistical Mechanics discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents. The book emphasizes the equilibrium states of physical systems. The text first details the statistical basis of thermodynamics, and then proceeds to discussing the elements of ensemble theory. The next two chapters cover the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while Chapter 6 talks about the theory of simple gases. Chapters 7 and 8 examine the ideal Bose and Fermi systems. In the next three chapters, the book covers the statistical mechanics of interacting systems, which includes the method of cluster expansions, pseudopotentials, and quantized fields. Chapter 12 discusses the theory of phase transitions, while Chapter 13 discusses fluctuations. The book will be of great use to researchers and practitioners from wide array of disciplines, such as physics, chemistry, and engineering.

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