

FREE ACCESS BASICS OF MECHANICAL ENGINEERING BY DS KUMAR

Basics of Mechanical Engineering

Basic Mechanical Engineering covers a wide range of topics and engineering concepts that are required to be learnt as in any undergraduate engineering course. Divided into three parts, this book lays emphasis on explaining the logic and physics of critical problems to develop analytical skills in students.

Basics of Mechanical Engineering

Basic Mechanical Engineering curriculum focuses on what mechanical engineering is all about: design, analysis, materials and manufacture of systems. To that extent, all mathematics, science, and engineering courses relate their contents to analysis, design, development and manufacturing. Mechanical Engineering explains about the knowledge and understanding of the concepts in the mechanical engineering discipline. This book focuses on basic engineering concepts which will help student to perform well in the engineering field. The following topics are covered in this subject: • Design fundamentals • Engineering materials • Manufacturing processes • Machine tools • Thermal Engineering • Theory of Machines and Machine Design • Power absorbing devices • Steam Boilers, Compressors, Engines, and Turbines • Refrigeration and Air-conditioning Key Features • Course learning objectives • All topics explained in simple and lucid manner • Sufficient theory questions and Numerical problems for practice

Basic Mechanical Engineering

This textbook for the first year students of all branches of Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal(M.P.), It has been strictly according to the new syllabus of RGPV. The subject matter has been explained clearly and precisely in the simplest way. Salient features are :250 Solved ExamplesA number of exercises at the end of every chapter Multi-Choice.

Basic Mechanical Engineering

The book starts with the law of forces, free-body diagrams, basic information on materials strength including stresses and strains. It further discusses principles of transmission of power and elementary designs of gears, spring, etc. This part concludes with mechanical vibrations, — their importance, types, isolation and critical speed. The second part, Thermal Engineering, deals with basics and laws of thermodynamics; pure substances and their properties. It further includes laws of heat transfer, insulation, and heat exchanges. This part concludes with a detailed discussion on refrigeration and air conditioning. Part three, Fluid Mechanics and Hydraulics, includes properties of fluids, measurement of pressure, Bernoulli's equation, hydraulic turbine, pumps and various other hydraulic devices. Part four, Manufacturing Technology, mainly deals with various manufacturing processes such as metal forming, casting, cutting, joining, welding, surface finishing and powder metallurgy. It further deals with conventional and non-conventional machining techniques, fluid power control and automation including hydraulic and pneumatic systems and automation of mechanical systems. Part five, Automobile Engineering deals with various aspects of IC and SI engines and their classification, etc. Four- and two-stroke engines also find place in this section. Next, systems in automobiles including suspension and power transmission systems, starting, ignition, charging and fuel injection systems. The last section deals with power plant engineering and energy. It includes power plant layout, surface

condensers, steam generators, boilers and gas turbine plants. It concludes with renewable, non-renewable, conventional and non-conventional sources of energy, and energy conversion devices.

Basic Of Mechanical Engineering (Mdu)

The Book Provides A Glimpse Of The Fascinating Field Of Mechanical Engineering To The Entrants To Engineering Colleges. It Gives An Insight Into The Major Areas Of Mechanical Engineering, Like Power Production, Energy Alternatives, Production Alternatives And The Latest Computer Controlled Machine Tools. The Book Is Made Interesting With Numerous Sketches And Schematics - A Definite Advantage In Understanding The Subject.

Basic Mechanical Engineering

Mechanical engineering, as its name suggests, deals with the mechanics of operation of mechanical systems. This is the branch of engineering which includes design, manufacturing, analysis and maintenance of mechanical systems. It combines engineering physics and mathematics principles with material science to design, analyse, manufacture and maintain mechanical systems. This book covers the field requires an understanding of core areas including thermodynamics, material science, manufacturing, energy conversion systems, power transmission systems and mechanisms. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Basic Mechanical Engineering

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.

Comprehensive Basic Mechanical Engineering

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. In Basics of Mechanical Engineering Each chapter includes problems selected from university examination papers and question banks. Exhaustive question bank on theory problems at the end of each chapter. Includes all supplementary material required by the students like steam tables, section modulus. A large number of illustrative diagrams support the text, wherever required. S.I. units used throughout. Each chapter has been summed up in easy to recall points.

Basic Of Mechanical Engineering (Rgvp)

Basic of Mechanical Engineering is an under graduate level book for all the engineering streams like Electrical Engineering, Civil Engineering, Food Technology, Electronics etc. This book contains 17 chapters all related to concepts of Mechanical Engineering. An attempt is made to present a book which not only covers the aspects of mechanical engineering related to concept but also to its applications. It is also attempted to cover the majority of the subjects related to mechanical engineering i.e. thermal science, power generation, internal combustion engines, hydraulic machinery, refrigeration, refrigerants, simple lifting machines, power transmission method, strength of materials and energy and exergy analysis of the milk processing industry. However, the justice is done with the topic to restrict within the scope of syllabus but

additional information and resources are also provided. The concepts of thermodynamics, internal combustion engines, refrigeration, solid mechanics are applicable over large industrial preview, so this book will be helpful for every engineering graduate to quickly grasp the basic mechanical knowledge.

Basic Mechanical Engineering

Introduction to Mechanical Engineering Sciences addresses various fields such as Thermodynamics, IC Engines, Power plant engineering, etc.

Basic Mechanical Engineering

This book provides the fundamental knowledge allowing students in engineering and natural sciences to enter fluid mechanics and its applications in various fields where fluid flows need to be dealt with. This textbook is written for the introductory course of fluid mechanics for students at the undergraduate and postgraduate levels. Volume 1 of this textbook contains seven chapters to help build the basic understanding of the subject matter. It adequately covers the properties of fluids, pressure and its measurement, hydrostatic forces on surface, buoyancy, and floatation, kinematics of fluid motion, dynamics of fluid flow, and dimensional and model analysis. The concepts are supported by numerous solved examples and multiple-choice questions to aid self-learning in students. The textbook also contains illustrated diagrams for better understanding of the concepts. The book is extremely useful for the undergraduate and postgraduate students of engineering and natural sciences.

Basic Of Mechanical Engineering (Mriu)

Explains the fundamentals of mechanical engineering for the undergraduate students of all branches of engineering. Coverage includes machine tool and fabrication processes; thermodynamics, IC engines and steam turbines; hydraulic turbines and pumps; refrigeration and air-conditioning; power transmission methods and devices; and stresses, strain, shear force and bending moment diagrams.

Basics of Civil and Mechanical Engineering

This book 'Basic Mechanical Engineering' has been written to provide knowledge and insight into various aspects of Mechanical Engineering. This book is intended as text book to be used by the students in the technical institutions i.e. Engineering Colleges and Polytechnics. The book covers Syllabi of various Universities on 'Basic Mechanical Engineering', 'Elements of Mechanical Engineering', 'Mechanical Engineering', 'Introduction to Mechanical Engineering' and 'Fundamentals of Mechanical Engineering' for the students of all the disciplines of Engineering. Adequate attention has been paid to emphasize on basic principles involved in the subject matter. The explanation in the text has been supported with line diagrams, along with numerous solved problems. The readers will find the book highly useful as a comprehensive text covering basic principles in simple language and easy to grasp formatting.

Basic Mechanical Engineering

The present title Mechanical Engineering has been design for all engineering students of Indian Universities to meet out the basic requirement of the students in making their concepts clear. In order to provide the reader with practice interpreting truth tables and logic symbols, the method of perfect induction is used to prove most of the theorems. For the most part, real commercially available device characteristics are employed. In this way the reader may become familiar with the order of magnitude of device parameters, and the variability of these parameters within a given type. This book is written is a single and easy to follow language, so that even an average student an grasp subject by self study. Special effort has also been made to indicate the shortest analysis of a wide variety of problems. In the preparation of this book large number of

books and research papers have been consulted. So no authenticity is claimed. The author wishes to express his deepest appreciation to the many people who have contributed in one way or the other to the preparation of this title. Contents: Fundamental Concept and Definition, Ideal Gas, Laws of Thermodynamics, First Law of Thermodynamics, The Second Law of Thermodynamics, Vapour Power Cycles, Thermodynamics Cycles, Simple Stress and Strain, Bending and Shearing Stress, Torsion.

Basic Mechanical Engineering (Fe Sem. I, Su)

Basic Mechanical Engineering

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