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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

pearson brings to you engineering mechanics an ideal offering for the complete course on engineering mechanics written in a simple and lucid style the book covers the basic principles of mechanics and its application to the solution of engineering pro

explains the fundamental concepts and principles underlying the subject illustrates the application of numerical methods to solve engineering problems with mathematical models and introduces students to the use of computer applications to solve problems a continuous step by step build up of the subject makes the book very student friendly all topics and sequentially coherent subtopics are carefully organized and explained distinctly within each chapter an abundance of solved examples is provided to illustrate all phases of the topic under consideration all chapters include several spreadsheet problems for modeling of physical phenomena which enable the student to obtain graphical representations of physical quantities and perform numerical analysis of problems without recourse to a high level computer language adequately equipped with numerous solved problems and exercises this book provides sufficient material for a two semester course the book is essentially designed for all engineering students it would also serve as a ready reference for practicing engineers and for those preparing for competitive examinations it includes previous years question papers and their solutions

designed for the first year undergraduate students of all engineering disciplines this well written textbook presents a comprehensive coverage of the fundamental concepts

principles and applications of engineering mechanics in an easy to comprehend manner the book presents an in depth analysis of various branches of engineering mechanics and the units of measurements it discusses the system of forces its characteristics and graphical representation along with composition of coplanar concurrent non concurrent forces in a simple but effective style using a self instructive student friendly approach the book describes properties of surfaces which cover centre of gravity and moment of inertia separate chapters are devoted to a thorough study of friction kinematics and kinetics of particles finally this book explains the elements of rigid body dynamics

this comprehensive and self contained textbook will help students in acquiring an understanding of fundamental concepts and applications of engineering mechanics with basic prior knowledge the readers are guided through important concepts of engineering mechanics such as free body diagrams principles of the transmissibility of forces coulomb s law of friction analysis of forces in members of truss and rectilinear motion in horizontal direction important theorems including lami s theorem varignon s theorem parallel axis theorem and perpendicular axis theorem are discussed in a step by step manner for better clarity applications of ladder friction wedge friction screw friction and belt friction are discussed in detail the textbook is primarily written for undergraduate engineering students in india numerous theoretical questions unsolved numerical problems and solved problems are included throughout the text to develop a clear understanding of the key principles of engineering mechanics this text is the ideal resource for first year engineering undergraduates taking an introductory single semester course in engineering mechanics

this book of applied mechanics is intended for students of engineering taking a first course in the subject of engineering mechanics the book is written in a simple style laying great emphasis on the basic concepts and principles of mechanics and their applications which are illustrated through a large number of examples each chapter is preceded by the learning outcomes and concludes with review questions and graded problems for practice from which the reader can judge his achievement of learning outcomes the book will be immensely useful for students beginning a course of study in engineering degree or diploma for a better understanding of basic concepts principles of mechanics and for teachers to plan their instruction for the subject in a systematic way

this book is based on expertise of the authors obtained through their long teaching careers it is put up in a simple language so that it could cater to one and all the attention of the students is drawn to the topics of bending moments and twisting moments which are not properly explained in most of other books they have been explained with the help of vectors which are used to present these quantities in such a way that one can easily distinguish between these two as what is bending moments and what is twisting motions

now in its second english edition mechanics of materials is the second volume of a three volume textbook series on engineering mechanics it was written with the intention of presenting to engineering students the basic concepts and principles of mechanics in as simple a form as the subject allows a second objective of this book is to guide the students in their efforts to solve problems in mechanics in a systematic manner the simple approach to the theory of mechanics allows for the different educational backgrounds of the students another aim of this book is to provide engineering students as well as practising engineers with a basis to help them bridge the gaps between undergraduate studies advanced courses on mechanics and practical engineering problems the book contains numerous examples and their solutions emphasis is placed upon student participation in solving the problems the new edition is fully revised and supplemented by additional examples the contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges volume 1 deals with statics and volume 3 treats particle dynamics and rigid body dynamics separate books with exercises and well elaborated solutions are available

this textbook is designed for introductory statics courses found in mechanical engineering civil engineering aeronautical engineering and engineering mechanics departments it better enables students to learn challenging material through effective efficient examples and explanations

each chapter begins with a quick discussion of the basic concepts and principles it then provides several well developed solved examples which illustrate the various dimensions of the concept under discussion a set of practice problems is also included to encourage the student to test his mastery over the subject the book would serve as an excellent text

for both degree and diploma students of all engineering disciplines amie candidates would also find it most useful

with a clear writing style comprehensive coverage and a variety of solved problems engineering mechanics is a complete guide to students of engineering mechanics the book uses both the scalar and vector approaches in explaining core concepts which are preceded by a practical example a large number of worked out examples as well as numerous review questions and practice problems at the end of every chapter aid in the understanding and retention

mechanics is one of the branches of physics in which the number of principles is at once very few and very rich in useful consequences on the other hand there are few sciences which have required so much thought the conquest of a few axioms has taken more than 2000 years rene dugas a history of mechanics introductory courses in engineering mechanics statics and dynamics are generally found very early in engineering curricula as such they should provide the student with a thorough background in the basic fundamentals that form the foundation for subsequent work in engineering analysis and design consequently our primary goal in writing statics for engineers and dynamics for engineers has been to develop the fundamental principles of engineering mechanics in a manner that the student can readily comprehend with this comprehension the student thus acquires the tools that would enable him/her to think through the solution of many types of engineering problems using logic and sound judgment based upon fundamental principles approach we have made every effort to present the material in a concise but clear manner each subject is presented in one or more sections followed by one or more examples the solutions for which are presented in a detailed fashion with frequent reference to the basic underlying principles a set of problems is provided for use in homework assignments

a textbook of engineering mechanics has been written especially for the students of b e b tech of himachal pradesh technical university hamirpur it represents a comprehensive study of important topics of engineering mechanics for undergraduate students of engineering in a brief clear and lucid manner

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