

Engineering Mechanics Statics Dynamics 12th Edition

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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

lectures on engineering mechanics statics and dynamics is suitable for bachelor s level education at schools of engineering with an academic profile it gives a concise and formal account of the theoretical framework of elementary engineering mechanics this book is also available with exercises see amazon com dp 9198128752 for si version or amazon com dp 9198128787 for usc version a distinguishing feature of this textbook is that its content is consistently structured into postulates definitions and theorems with rigorous derivations the reader finds support in a wealth of illustrations and a cross reference for each deduction this textbook underscores the importance of properly drawn free body diagrams to enhance the problem solving skills of students table of contents i statics 1 introduction 2 force couple systems 3 static equilibrium 4 center of mass 5 distributed and internal forces 6 friction ii particle dynamics 7 planar kinematics of particles 8 kinetics of particles 9 work energy method for particles 10 momentum and angular momentum of particles 11 harmonic oscillators iii rigid body dynamics 12 planar kinematics of rigid bodies 13 planar kinetics of rigid bodies 14 work energy method for rigid bodies 15 impulse relations for rigid bodies 16 three dimensional kinematics of rigid bodies 17 three dimensional kinetics of rigid bodies appendix a selected mathematics b quantity unit and dimension c tables

the 7th edition continues to provide the same high quality material seen in previous editions it provides extensively rewritten updated prose for content clarity superb new problems in new application areas outstanding instruction on drawing free body diagrams and new electronic supplements to assist learning and instruction

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this is the more practical approach to engineering mechanics that deals mainly with two dimensional problems since these comprise the great majority of engineering situations and are the necessary foundation for good design practice the format developed for this textbook moreover has been devised to benefit from contemporary ideas of problem solving as an educational tool in both areas dealing with statics and dynamics theory is held apart from applications so that practical engineering problems which make use of basic theories in various combinations can be used to reinforce theory and demonstrate the workings of static and dynamic engineering situations in essence a traditional approach this book makes use of two dimensional engineering drawings rather than pictorial representations word problems are included in the latter chapters to encourage the student's ability to use verbal and graphic skills interchangeably si units are employed throughout the text this concise and economical presentation of engineering mechanics has been classroom tested and should prove to be a lively and challenging basic textbook for two semester courses for students in mechanical and civil engineering applied engineering mechanics statics and dynamics is equally suitable for students in the second or third year of four year engineering technology programs

the principles of statics and dynamics are applied in order to understand and describe the behaviour of bodies in motion displaying engineering mechanics principles and supported with worked examples

this book presents the foundations and applications of statics by emphasizing the importance of visual analysis of topics especially through the use of free body diagrams it also promotes a problem solving approach to solving examples through its strategy solution and discussion format the authors further include design and computational examples that help integrate these abet 2000 requirements features strong coverage of fbds and free body and kinetic diagrams chapter topics include vectors forces systems of forces and moments objects in equilibrium structures in equilibrium centroids and centers of mass moments of inertia friction internal forces and moments virtual work and potential energy motion of a point force mass and acceleration energy methods momentum methods planar kinematics of rigid bodies planar dynamics of rigid bodies energy and momentum in rigid body dynamics three dimensional kinematics and dynamics of rigid bodies vibration for professionals in mechanical civil aeronautical or engineering mechanics fields publisher

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