

Fundamentals Of Engineering Mechanics By S Rajasekaran

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The Fundamentals of Engineering exam, also referred to as the Engineer in Training exam, and formerly in some states as the Engineering Intern exam, is the first of two examinations

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that engineers must pass in order to be licensed as a Professional Engineer in the United States. The second examination is Principles and Practice of Engineering Examination. The FE exam is open to anyone with a degree in engineering or a related field, or currently enrolled in the last year of an ABET-accredited en

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Topics include engineering mathematics, chemistry, materials science, solid and fluid mechanics, thermodynamics, engineering economics and ethics, computer science and electrical circuits. The course concludes with a practice Fundamentals of Engineering (FE) exam.Prereq: Senior undergraduate or graduate standing. 3 hr./wk.; 1 cr.

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Fundamentals of Engineering (FE) Examination or the Principles and Practice of Engineering (PE) Examination, both of which are required for board certification of practicing engineers. It makes a great desk reference book as well.

Fundamentals of Engineering Mechanics presents introductory concepts in mechanics of materials through a module-based learning approach. Basic concepts are introduced through a clear discussion of background theory, simple illustrations, understandable example problems with solutions, and relevant exercises with the answers provided. This textbook can be used for the review of engineering mechanics fundamentals and for undergraduate course enhancement in dynamics. It can also be used as a study aid for students and professionals preparing for the Fundamentals of Engineering (FE) Examination or the Principles and Practice of Engineering (PE) Examination, both of which are required for board certification of practicing engineers. It makes a great desk reference book as well.

Standard notations are used throughout All problems are solved systematically to illustrate the correct method of answering

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Students of engineering mechanics require a treatment embracing principles, practice an problem solving. Each are covered in this text in a way which students will find particularly helpful. Every chapter gives a thorough description of the basic theory, and a large selection of worked examples are explained in an understandable, tutorial style. Graded problems for solution, with answers, are also provided. Integrating statistics and dynamics within a single volume, the book will support the study of engineering mechanics throughout an undergraduate course. The theory of two- and three-dimensional dynamics of particles and rigid bodies, leading to Euler's equations, is developed. The vibration of one- and two-degree-of-freedom systems and an introduction to automatic control, now including frequency response methods, are covered. This edition has also been extended to develop continuum mechanics, drawing together solid and fluid mechanics to illustrate the distinctions between Eulerian and Lagrangian coordinates. Supports study of mechanics throughout an undergraduate course Integrates statics and dynamics in a single volume Develops theory of 2D and 3D dynamics of particles and rigid bodies

Fundamentals of Engineering Mechanics presents introductory concepts in statics and mechanics of materials through a module-based learning approach. Basic concepts are introduced through a clear discussion of background theory, simple illustrations, understandable example problems with solutions, and relevant exercises with the answers provided. This textbook can be used for the review of engineering mechanics fundamentals and for undergraduate course enhancement in dynamics. It can also be used as a study aid for students and professionals preparing for the Fundamentals of Engineering (FE) Examination or the Principles and Practice of Engineering (PE) Examination, both of which are required for board certification of practicing engineers. It makes a great desk reference book as well.

This book provides fundamentals of Mechanical Engineering For The undergraduate students

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of all branches of engineering. The various topics of Mechanical Engineering that are discussed in the book are: * Machine tool and fabrication process * Thermodynamics, IC engines and steam turbines * Hydraulic turbines and pumps * Refrigeration and air-conditioning * Power transmission methods and devices * Stresses, strain, shear force and bending moment diagrams * Numerical control machines. (NC and CNCs) * Applied mechanics. A large number of worked out problems, exercises and MCQs are provided in all the chapters.

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