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companion cd contains 8 animations covering fundamental engineering mechanics concept

the goal of this text is to introduce a general problem solving approach for the beginning engineering student thus introduction to analysis focuses on how to solve any kind of engineering analytical problem in a logical and systematic way the book helps to prepare the students for such analytically oriented courses as statics strength of materials electrical circuits fluid mechanics thermodynamics etc

this book present the fundamental numerical techniques used in engineering applied mathematics computer science and the physical and life sciences in a manner that is both interesting and understandable numerical analysis with applications and algorithms includes comprehensive coverage of solving nonlinear equations of a single variable numerical linear algebra nonlinear functions of several variables numerical methods for data interpolations and approximation numerical differentiation and integration and numerical techniques for solving

differential equations this book is useful as a reference for self study

each chapter uses introductory problems from specific applications these easy to understand problems clarify for the reader the need for a particular mathematical technique numerical techniques are explained with an emphasis on why they work features discussion of the contexts and reasons for selection of each problem and solution method worked out examples are very realistic and not contrived matlab code provides an easy test bed for algorithmic ideas

this book presents the fundamental numerical techniques used in engineering applied mathematics computer science and the physical and life sciences in a way that is both interesting and understandable using a wide range of examples and problems this book focuses on the use of mathcad functions and worksheets to illustrate the methods used when discussing the following concepts solving linear and nonlinear equations numerical linear algebra numerical methods for data interpolation and approximation numerical differentiation and integration and numerical techniques for solving differential equations for professionals in the fields of engineering mathematics computer science and physical or life sciences who want to learn mathcad functions for all major numerical methods

this best selling book offers a concise and thorough presentation of engineering mechanics theory and application the material is reinforced with numerous examples to illustrate principles and imaginative well illustrated problems of varying degrees of difficulty the book is committed to developing its users problem solving skills and includes pedagogical features that have made hibbeler synonymous with excellence in the field chapter topics cover general principles force vectors equilibrium of a particle force system resultants equilibrium of a rigid body structural analysis internal forces friction center of gravity and centroid moments of inertia virtual work kinematics of a particle kinetics of a particle force and acceleration kinetics of a particle work and energy kinetics of a particle impulse and momentum planar kinematics of a rigid body planar kinetics of a rigid body force and acceleration planar kinetics of a rigid body work and energy planar kinetics of a rigid body impulse and momentum three dimensional kinematics of a rigid body three dimensional kinetics of a rigid body and vibrations for individuals involved in the study of mechanical civil aeronautical engineering

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