By Ferdinand Beer Vector Mechanics For Engineers Statics And Dynamics 8th 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

this compact and easy to read text provides a clear analysis of the principles of equilibrium of rigid bodies in statics and dynamics when they are subjected to external mechanical loads the book also introduces the readers to the effects of force or displacements so as to give an overall picture of the behaviour of an engineering system divided into two parts statics and dynamics the book has a structured format with a gradual development of the subject from simple concepts to advanced topics so that the beginning undergraduate is able to comprehend the

subject with ease example problems are chosen from engineering practice and all the steps involved in the solution of a problem are explained in detail the book also covers advanced topics such as the use of virtual work principle for finite element analysis introduction of castigliano s theorem for elementary indeterminate analysis use of lagrange s equations for obtaining equilibrium relations for multibody system principles of gyroscopic motion and their applications and the response of structures due to ground motion and its use in earthquake engineering the book has plenty of exercise problems which are arranged in a graded level of difficulty worked out examples and numerous diagrams that illustrate the principles discussed these features along with the clear exposition of principles make the text suitable for the first year undergraduate students in engineering

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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this text offers a clear presentation of the principles of engineering mechanics each concept is presented as it relates to the fundamental principles on which all mechanics is based the text contains a large number of actual engineering problems to develop and encourage the understanding of important concepts these examples

and problems are presented in both si and imperial units and the notation is primarily vector with a limited amount of scalar this edition combines coverage of both statics and dynamics but is also available in two separate volumes

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this is the more practical approach to engineering mechanics that deals mainly withtwo dimensional problems since these comprise the great majority of engineering situationsand are the necessary foundation for good design practice the format developedfor this textbook moreover has been devised to benefit from contemporary ideas ofproblem solving as an educational tool in both areas dealing with statics and dynamics theory is held apart from applications so that practical engineering problems whichmake use of basic theories in various combinations can be used to reinforce theoryand demonstrate the workings of static and dynamic engineering situations in essence a traditional approach this book makes use of two dimensional engineeringdrawings rather than pictorial representations word problems are included in the latterchapters 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 classroomtested and should prove to be a lively and challenging basic textbook for two onesemestercourses for students in mechanical and civil engineering applied engineeringmechanics statics and dynamics is equally suitable for students in the second or thirdyear of four year engineering technology programs

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