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over the past 50 years meriam kraige s engineering mechanics statics has established a highly respected tradition of excellence a tradition that emphasizes accuracy rigor clarity and applications now in a sixth edition this classic text builds on these strengths adding a comprehensive course management system wiley plus to the text including an e text homework management animations of concepts and additional teaching and learning resources new sample problems new homework problems and updates to content make the book more accessible the sixth edition continues to provide a wide variety of high quality problems that are known for their accuracy realism applications and variety motivating students to learn and develop their problem solving skills to build necessary visualization and problem solving skills the sixth edition continues to offer comprehensive coverage of drawing free body diagrams the most important skill needed to solve mechanics problems

engineering mechanics statics provides students with a solid foundation of mechanics principles this product helps students develop their problem solving skills with an extensive variety of engaging problems related to engineering design to help students build necessary visualization and problem solving skills a strong emphasis is placed on drawing free body diagrams the most important skill needed to solve mechanics problems

known for its accuracy clarity and dependability meriam and kraige s engineering mechanics statics seventh edition has provided a solid foundation of mechanics principles for more than 60 years now in its seventh edition the text continues to help students develop their problem solving skills with an extensive variety of engaging problems related to engineering design more than 50 of the homework problems are new and there are also a number of new sample problems to help students build necessary visualization and problem solving skills the text strongly emphasizes drawing free body diagrams the most important skill needed to solve mechanics problems

if maple is the computer algebra system you need to use for your engineering calculations and graphical output this reference will be a valuable tutorial for your studies written as a guidebook for students taking the engineering statics course solving statics problems in maple will help you with your engineering assignments throughout the course over the past 50 years meriam kraige s engineering mechanics statics has established a highly respected tradition of excellence a tradition that emphasizes accuracy rigor clarity and applications now completely revised redesigned and modernized the fifth edition of this classic text builds on these strengths adding new problems and a more accessible student friendly presentation

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

known for its accuracy clarity and dependability meriam kraige and bolton's engineering mechanics statics 9th edition has provided a solid foundation of mechanics principles for more than 60 years this text continues to help students develop their problem solving skills with an extensive variety of engaging problems related to engineering design in addition to new homework problems the text includes a number of helpful sample problems to help students build necessary visualization and problem solving skills the text strongly emphasizes drawing free body diagrams one of the most important skills needed to solve mechanics problems

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the latest edition of engineering mechanics dynamics 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

ship hydrostatics and stability is a complete guide to understanding ship hydrostatics in ship design and ship performance taking you from first principles through basic and applied theory to contemporary mathematical techniques for hydrostatic modeling and analysis real life examples of the practical application of hydrostatics are used to explain the theory and calculations using matlab and excel the new edition of this established resource takes in recent developments in naval architecture such as parametric roll the effects of non linear motions on stability and the influence of ship lines along with new international stability regulations extensive reference to computational techniques is made throughout and downloadable matlab files accompany the book to support your own hydrostatic and stability calculations the book also includes definitions and indexes in french german italian and spanish to make the material as accessible as possible for international readers equips naval architects with the theory and context to understand and manage ship stability from the first stages of design through to construction and use covers the prerequisite foundational theory including ship dimensions and geometry numerical integration and the calculation of heeling and righting moments outlines a clear approach to stability modeling and analysis using computational methods and covers the international standards and regulations that must be kept in mind throughout design work includes definitions and indexes in french german italian and spanish to make the material as accessible as possible for international readers

this book covers the essential elements of engineering mechanics of deformable bodies including mechanical elements in tension compression torsion and bending it emphasizes a fundamental bottom up approach to the subject in a concise and uncluttered presentation of special interest are chapters dealing with potential energy as well as principle of virtual work methods for both exact and approximate solutions the book places an emphasis on the underlying assumptions of the theories in order to encourage the reader to think more deeply about the subject matter the book should be of special interest to undergraduate students looking for a streamlined presentation as well as those returning to the subject for a second time

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this resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions it features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems each subject is discussed in detail and supported by numerous figures and tables

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this is a rare book on a rare topic it is about action and the principle of least action a surprisingly well kept secret these ideas are at the heart of physical science and engineering physics is well known as being concerned with grand conservatory principles e.g. the conservation of energy but equally important is the optimization principle such as getting somewhere in the shortest time or with the least resistance the book explains why an optimization principle underlies physics what action is what the hamiltonian is and how new insights into energy space and time arise it assumes some background in the physical sciences at the level of undergraduate science but it is not a textbook the requisite derivations and worked examples are given but may be skim read if desired the author draws from cornelius lanczos's book the variational principles of mechanics 1949 and 1970 lanczos was a brilliant mathematician and educator but his book was for a postgraduate audience the present book is no mere copy with the difficult bits left out it is original and a popularization it aims to explain ideas rather than achieve technical competence and to show how least action

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