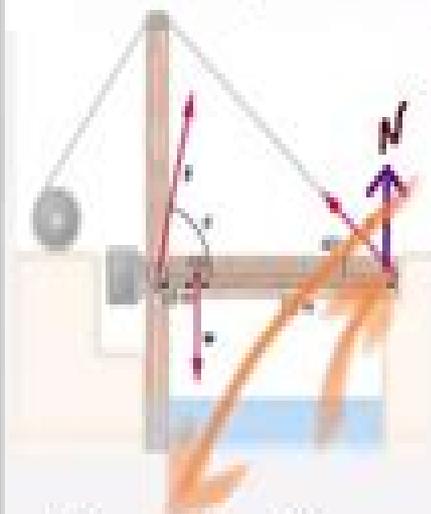


4. Suppose the weight of the drawbridge in figure is supported entirely by its hinges and the opposite shore, so that its cables are slack. (a) What fraction of the weight is supported by the opposite shore if the point of support is directly beneath the cable attachments? (b) What is the direction and magnitude of the force the hinges exert on the bridge under these circumstances? The mass of the bridge is 2500 kg.



$$F + N = W \quad (F_{net} = 0)$$

$$F(1) = W(7.5)$$

$$F = W(7.5)/9$$

$$= (2500)(9.8)(7.5)/9 = 20417 \text{ N}$$

$$N = W - F$$

$$= (2500)(9.8) - 20417 = 4083 \text{ N}$$

$$N/W = \frac{4083}{(2500)(9.8)} = 0.167 \approx \frac{1}{6} W$$

$$F = 2.0 \times 10^4 \text{ st. up}$$

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Arturo Cuomo



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Kinematics, Dynamics, and Design of Machinery Kenneth J. Waldron, Gary L. Kinzel, Sunil K. Agrawal, 2016-09-20
Kinematics Dynamics and Design of Machinery Third Edition presents a fresh approach to kinematic design and analysis and is an ideal textbook for senior undergraduates and graduates in mechanical automotive and production engineering Presents the traditional approach to the design and analysis of kinematic problems and shows how GCP can be used to solve the same problems more simply Provides a new and simpler approach to cam design Includes an increased number of exercise problems Accompanied by a website hosting a solutions manual teaching slides and MATLAB programs **MATLAB Essentials: Symbolic and Numeric Problem-Solving in Engineering** Lester W. Schmerr, Jr., 2025-11-19 This book introduces MATLAB as a direct problem solving tool where the many built in functions and commands of MATLAB can be used to perform even complex tasks In this mode MATLAB acts as a very advanced scientific calculator The primary purpose of this book is to teach the reader how to use the functions and commands of this calculator and when necessary how to save the problem solving steps so that the solution obtained can be re used or re evaluated under different conditions The book also introduces symbolic calculations extensively in addition to the traditional numerical methods found in other texts MATLAB was initially introduced as a numerical tool for linear algebra problems and over the years has extended those numerical capabilities significantly to many areas of science and engineering Consequently it is not surprising that most books retain a strong emphasis on numerical solutions and treat symbolic calculations only briefly if at all A key point is that while symbolic algebra can be used to solve problems symbolically it can also be used to make the formulation of problems much simpler even if the ultimate solution is found numerically Recognizing and demonstrating this important property of symbolic calculations is unique to this book Examines symbolic and numeric MATLAB tools with engineering examples of linear and nonlinear equations eigenvalue problems and differential equations [A Unified Approach to the Finite Element Method and Error Analysis Procedures](#) Julian A. T. Dow, 1998-11-09 A Unified Approach to the Finite Element Method and Error Analysis Procedures provides an in depth background to better understanding of finite element results and techniques for improving accuracy of finite element methods Thus the reader is able to identify and eliminate errors contained in finite element models Three different error analysis techniques are systematically developed from a common theoretical foundation 1 modeling errors in individual elements 2 discretization errors in the overall model 3 point wise errors in the final stress or strain results Thoroughly class tested with undergraduate and graduate students A Unified Approach to the Finite Element Method and Error Analysis Procedures is sure to become an essential resource for students as well as practicing engineers and researchers New simpler element formulation techniques model independent results and error measures New polynomial based methods for identifying critical points New procedures for evaluating shear strain accuracy Accessible to undergraduates insightful to researchers and useful to practitioners Taylor series polynomial based Intuitive elemental and

point wise error measures Essential background information provided in 12 appendices

Micromechanics of Granular Materials Bernard Cambou, Michel Jean, Farhang Radjai, 2013-03-01 Micromechanics of Granular Materials Nearly all solids are comprised of grains However most studies treat materials as a continuous solid The book applies analysis used on loose granular materials to dense granular materials This title's main focus is devoted to static or dynamic loadings applied to dense materials although rapid flows and widely dispersed media are also mentioned briefly Three essential areas are covered Local variable analysis Contact forces displacements and rotations orientation of contacting particles and fabric tensors are all examples of local variables Their statistical distributions such as spatial distribution and possible localization are analyzed taking into account experimental results or numerical simulations Change of scales procedures Also known as homogenization techniques these procedures make it possible to construct continuum laws to be used in a continuum mechanics approach or performing smaller scale analyses Numerical modeling Several methods designed to calculate approximate solutions of dynamical equations together with unilateral contact and frictional laws are presented including molecular dynamics the distinct element method and non smooth contact dynamics Numerical examples are given and the quality of numerical approximations is discussed

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