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The shearing strength of the bolt is 300 MPa. Solution 117. Problem 118 A 200-mm-diameter pulley is prevented from rotating relative to 60-mm-diameter shaft by a 70-mm-long key, as shown in Fig. P-118. If a

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torque  $T = 2.2 \text{ kN}\cdot\text{m}$  is applied to the shaft, determine the width  $b$  if the allowable shearing stress in the key is  $60 \text{ MPa}$ . Solution 118

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SECTION 1.3 Mechanical Properties of Materials 11.  $W$  total weight of tungsten wire  $T$  weight density of tungsten  $190 \text{ kN/m}^3$   $W$  weight density of sea water  $10.0 \text{ kN/m}^3$   $A$  cross-sectional area of wire max  $1500 \text{ MPa}$  (breaking strength) (a) WIRE HANGING IN AIR  $W$  TAL  $7900 \text{ m}$ .  $L_{\text{max}}$   $s_{\text{max}}$   $g$   $T$   $1500 \text{ MPa}$   $190 \text{ kN/m}^3$ .  $s_{\text{max}}$   $W$   $A$   $g$   $T$

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This book is the solution manual to Statics and Mechanics of Materials an Integrated Approach (Second Edition) which is written by below persons. William F. Riley, Leroy D. Sturges, Don H. Morris

STATICS AND STRENGTH OF MATERIALS, 7/e is fully updated text and presents logically organized, clear coverage of all major topics in statics and strength of materials, including the latest developments in materials technology and manufacturing/construction techniques. A basic knowledge of algebra and trigonometry are the only mathematical skills it requires, although several optional sections using calculus are provided for instructors teaching in ABET accredited programs. A new introductory section on catastrophic failures shows students why these topics are so important, and 25 full-page, real-life application sidebars demonstrate the relevance of theory. To simplify understanding and promote student interest, the book is profusely



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This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This resource provides the necessary background in mechanics that is essential in many fields, such as civil, mechanical, construction, architectural, industrial, and manufacturing technologies. The focus is on the fundamentals of material statics and strength and the information is presented using an elementary, analytical, practical approach, without the use of Calculus. To ensure understanding of the concepts, rigorous, comprehensive example

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problems follow the explanations of theory, and numerous homework problems at the end of each chapter allow for class examples, homework problems, or additional practice for students. Updated and completely reformatted, the Sixth Edition of Applied Statics and Strength of Materials features color in the illustrations, chapter-opening Learning Objectives highlighting major topics, updated terminology changed to be more consistent with design codes, and the addition of units to all calculations.

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