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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 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 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 kN/m³ W weight density of sea water 10.0 kN/m³ A cross-sectional area of wire max 1500 MPa (breaking strength) (a) WIRE HANGING IN AIR W TAL 7900 m. Lmax smax gT 1500 MPa 190 kN m³. smax W A gTL

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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 illustrated.

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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 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.

This leading book in the field focuses on what materials specifications and design are most effective based on function and actual load-carrying capacity. Written in an accessible style, it emphasizes the basics, such as design, equilibrium, material behavior and geometry of deformation in simple structures or machines. Readers will also find a thorough treatment of stress, strain, and the stress-strain relationships. These topics are covered before the customary treatments of axial loading, torsion, flexure, and buckling.

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