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**6-76.** The joint is used to transmit a torque of  $T = 2.4 \text{ kN}\cdot\text{m}$ . Determine the required nominal diameter of the shaft pin A if it is made from a material having a shear failure stress of  $\tau_{\text{fail}} = 150 \text{ MPa}$ . Apply a factor of safety of 2 against failure.



**Known:** The shear force developed on the shear plane of pin A can be determined by writing the moment equation of equilibrium along the  $x$  axis with reference to the free-body diagram of the shaft, Fig. a.

$$\sum M_x = 0; \quad (150)(L) - 500T = 0$$

$$L = 300 \text{ mm}$$

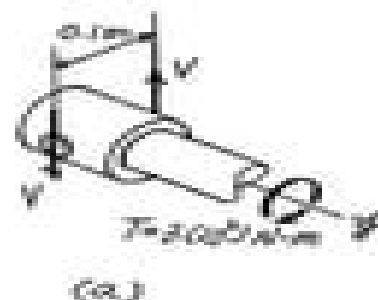
**Allowable Shear Stress:**

$$\tau_{\text{allow}} = \frac{\tau_{\text{fail}}}{FS} = \frac{150}{2} = 75 \text{ MPa}$$

Using this result,

$$\tau_{\text{allow}} = \frac{T}{J} \quad 75 \text{ MPa} = \frac{2.4 \text{ kN}\cdot\text{m}}{\frac{\pi}{32} d_p^3}$$

$$d_p = 10.0294 \text{ in} = 27 \text{ mm}$$



Ans.

**6-77.** Determine the maximum allowable torque  $T$  that can be transmitted by the joint. The shear pin A has a diameter of 25 mm, and it is made from a material having a failure shear stress of  $\tau_{\text{fail}} = 150 \text{ MPa}$ . Apply a factor of safety of 2 against failure.



**Known:** The shear force developed on the shear plane of pin A can be determined by writing the moment equation of equilibrium along the  $x$  axis with reference to the free-body diagram of the shaft, Fig. a.

$$\sum M_x = 0; \quad (150)(L) - T = 0$$

$$L = 100 \text{ mm}$$

**Allowable Shear Stress:**

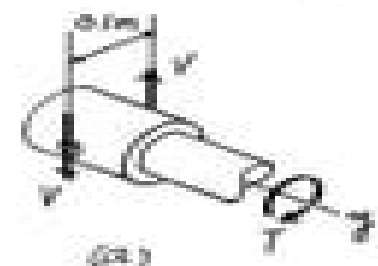
$$\tau_{\text{allow}} = \frac{\tau_{\text{fail}}}{FS} = \frac{150}{2} = 75 \text{ MPa}$$

The area of the shear plane for pin A is  $A_s = \frac{\pi}{4} (25 \text{ mm})^2 = 490.874 \text{ mm}^2$ . Using this result,

$$\tau_{\text{allow}} = \frac{T}{A_s} \quad 75 \text{ MPa} = \frac{T}{490.874 \text{ mm}^2}$$

$$T = 36916.57 \text{ N}\cdot\text{m} = 36.9 \text{ kN}\cdot\text{m}$$

Ans.



# **Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare**

**Lauren Gardner**



## **Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare:**

*Solution Manual* R. C. Hibbeler, S. C. Fan, 2004      *Solutions Manual : Mechanics of Materials* R. C. Hibbeler, 1991

Mechanical Materials Russell C. Hibbeler, 1994-10-01

**Mechanics of Materials** R. C. Hibbeler, 2011

Mechanics of Materials 8e is intended for undergraduate Mechanics of Materials courses in Mechanical Civil and Aerospace Engineering departments. Containing Hibbeler's hallmark student-oriented features, this text is in four color with a photorealistic art program designed to help students visualize difficult concepts. A clear, concise writing style and more examples than any other text further contribute to students' ability to master the material. Click here for the Video Solutions that accompany this book. Developed by Professor Edward Berger, University of Virginia, these are complete step-by-step solution walkthroughs of representative homework problems from each section of the text. *Solutions Manual, Mechanics of Materials, Fifth Edition* R. C. Hibbeler, 2003      *Solutions Manual for Mechanics of Materials* Stephen Timoshenko, 1984      Solutions Manual for Mechanics of Materials James M. Gere, Stephen P. Timoshenko, 1987      **Solution Manual to Accompany Mechanics of Materials, 2nd Edition** Madhukar Vable, 2017-08-23. This solution manual accompanies my textbook on Mechanics of Materials 2nd edition that can be printed or downloaded for free from my website [madhuvable.org](http://madhuvable.org). Along with the free textbook, there are also free slides, sample syllabus, sample exams, static and other mechanics course reviews, computerized tests, and gradebooks for instructors to record results of the computerized tests. This solution manual is designed for the instructors and may prove challenging to students. The intent was to help reduce the laborious algebra and to provide instructors with a way of checking solutions. It has been made available to students because it is next to impossible to maintain security of the manual even by large publishing companies. There are websites dedicated to obtaining a solution manual for any course for a price. The students can use the manual as additional examples, a practice followed in many first-year courses. Below is a brief description of the unique features of the textbook. There has been and continues to be a tremendous growth in mechanics, material science, and in new applications of mechanics of materials. Techniques such as the finite element method and Moiré interferometry were research topics in mechanics, but today these techniques are used routinely in engineering design and analysis. Wood and metal were the preferred materials in engineering design, but today machine components and structures may be made of plastics, ceramics, polymer composites, and metal matrix composites. Mechanics of materials was primarily used for structural analysis in aerospace, civil, and mechanical engineering, but today mechanics of materials is used in electronic packaging, medical implants, the explanation of geological movements, and the manufacturing of wood products to meet specific strength requirements. Though the principles in mechanics of materials have not changed in the past hundred years, the presentation of these principles must evolve to provide the students with a foundation that will permit them to readily incorporate the growing body of knowledge as an extension of the fundamental principles and not as something added on and vaguely connected to what they already know. This has been my primary

motivation for writing the textbook Learning the course content is not an end in itself but a part of an educational process Some of the serendipitous development of theories in mechanics of materials the mistakes made and the controversies that arose from these mistakes are all part of the human drama that has many educational values including learning from others mistakes the struggle in understanding difficult concepts and the fruits of perseverance The connection of ideas and concepts discussed in a chapter to advanced modern techniques also has educational value including continuity and integration of subject material a starting reference point in a literature search an alternative perspective and an application of the subject material Triumphs and tragedies in engineering that arose from proper or improper applications of mechanics of materials concepts have emotive impact that helps in learning and retention of concepts according to neuroscience and education research Incorporating educational values from history advanced topics and mechanics of materials in action or inaction without distracting the student from the central ideas and concepts is an important complementary objective of the textbook

**Mechanics of Materials** Ferdinand Pierre Beer, Elwood Russell Johnston, John T. DeWolf, 2006 Available January 2005 For the past forty years Beer and Johnston have been the uncontested leaders in the teaching of undergraduate engineering mechanics Their careful presentation of content unmatched levels of accuracy and attention to detail have made their texts the standard for excellence The revision of their classic Mechanics of Materials features an updated art and photo program as well as numerous new and revised homework problems The text's superior Online Learning Center [www.mhhe.com/beermom4e](http://www.mhhe.com/beermom4e) includes an extensive Self paced Mechanics Algorithmic Review and Tutorial S M A R T created by George Staab and Brooks Breeden of The Ohio State University that provides students with additional help on key concepts The custom website also features animations for each chapter lecture powerpoints and other online resources for both instructors and students

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**Engineering Mechanics of Materials** B. B. Muvdi, J. W. McNabb, 1980 **Solutions Manual for Mechanics of Materials**, 1967 **Solutions Manual to Accompany**

**Mechanics of Materials** Vable, 2002 This solutions manual accompanies Vable's Mechanics and Materials **Mechanics of Materials** James M. Gere, Stephen Timoshenko, 1999 This solutions manual provides complete worked solutions to all the problems and exercises in the fourth SI edition of Mechanics of Materials

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