Solution Manual for Design of Machine Elements 8th Edition by Spotts

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PROBLEMS-Chapter 1

 The lower ends of the two hangers in Fig. 1-41 were at the same elevation before the loads were applied. The horizontal member is of uniform cross section. Find the value of length I if the horizontal member (assumed to be rigid) is horizontal after all loads are acting.
 Ans. I = 38.3 in.

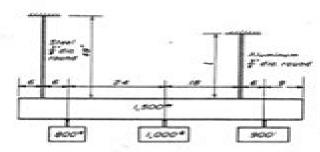


Figure 1-41 Problem 1.

Solution: To solve this problem we will need to draw a free body diagram as shown below:



The moment at the left rod:

$$48F_x = 1,500x28.5 + 800x6 + 1,000x30 + 900x54$$

$$F_{\pi} = \frac{126,150}{48} = 2,628 \text{ lbf}$$

The moment at the right rod:

Design Of Machine Elements 8th Solution Manual

DP Hallahan

Design Of Machine Elements 8th Solution Manual:

Applied Mechanics Reviews ,1973

Mechanical Design of Machine Elements and Machines Jack A. Collins, Henry R. Busby, George H. Staab, 2009-10-19 Taking a failure prevention perspective this book provides engineers with a balance between analysis and design The new edition presents a more thorough treatment of stress analysis and fatigue It integrates the use of computer tools to provide a more current view of the field Photos or images are included next to descriptions of the types and uses of common materials The book has been updated with the most comprehensive coverage of possible failure modes and how to design with each in mind Engineers will also benefit from the consistent approach to problem solving that will help them apply the material on **Subject Guide to Books in Print** .1996 Scientific and Technical Books in Print .1972 the job Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office, 1978 Solutions Manual for Design of Machine Elements Merhyle Franklin Spotts, 1950 Books in Print Supplement, 1985 The University of Tennessee Record ,1922 **Applied Strength of Materials** Robert L. Mott, 1990 This book provides comprehensive coverage of the key topics in strength of materials with an emphasis on applications problem solving and design of structural members mechanical devices and systems It includes coverage of the latest tools trends and analysis techniques and makes great use of example problems Chapter topics include basic concepts design properties of materials design of members under direct stress axial deformation and thermal stresses torsional shear stress and torsional deformation shearing forces and bending moments in beams centroids and moments of inertia of areas stress due to bending shearing stresses in beams special cases of combined stresses the general case of combined stress and Mohr's circle beam deflections statically indeterminate beams columns and pressure vessels For practicing mechanical designers and engineers Catalog of Copyright Entries, Fourth Series Library of Congress. The British National Bibliography Arthur James Wells,1968 Copyright Office, 1978 The United States Catalog, 1903 Annual Catalog ... University of Idaho, 1912 Mechanical Engineering ,1922 The British National Bibliography Cumulated Subject Catalogue ,1955 The United States Catalog Mary Burnham, Carol Hurd, 1928 **Elementary** Machine Shop Practice James Alfred Pratt, 1921 The Greville Memoirs (third Part) Charles Greville, 1887

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