

Problem 1.13

1.13 A couple M of magnitude $1500 \text{ N} \cdot \text{m}$ is applied to the crank of an engine. For the position shown, determine (a) the force P required to hold the engine system in equilibrium, (b) the average normal stress in the connecting rod BC , which has a 450-mm^2 uniform cross section.



Use piston, rod, and crank together as free body. Add wall reaction H and bearing reactions A_x and A_y .

$$\sum M_A = 0:$$

$$(0.280 \text{ m})H - 1500 \text{ N} \cdot \text{m} = 0$$

$$H = 5.3571 \times 10^3 \text{ N}$$



Use piston alone as free body. Note that rod is a two-force member; hence the direction of force F_{BC} is known. Draw the force triangle and solve for P and F_{BC} by proportions.

$$l = \sqrt{200^2 + 60^2} = 208.81 \text{ mm}$$

$$\frac{P}{H} = \frac{200}{60} \quad \therefore \quad P = 17.86 \times 10^3 \text{ N}$$

$$P = 17.86 \text{ kN}$$

$$\frac{F_{BC}}{H} = \frac{208.81}{60} \quad \therefore \quad F_{BC} = 18.643 \times 10^3 \text{ N}$$

Rod BC is a compression member. Its area is $450 \text{ mm}^2 = 450 \times 10^{-6} \text{ m}^2$

$$\text{Stress, } \sigma_{BC} = \frac{-F_{BC}}{A} = \frac{-18.643 \times 10^3}{450 \times 10^{-6}} = -41.4 \times 10^6 \text{ Pa}$$

$$(b) \quad \sigma_{BC} = -41.4 \text{ MPa}$$

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Padhraic Smyth



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Formeln und Aufgaben zur Technischen Mechanik Dietmar Gross, 2013-04-17 Die wichtigsten Formeln und etwa 140 vollständig gelöste Aufgaben zur Technischen Mechanik 3 Kinetik Besonderer Wert wird auf das Finden des Lösungswegs und das Erstellen der Grundgleichungen gelegt *700 Solved Problems In Vector Mechanics for Engineers: Dynamics* Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill Vector Mechanics for Engineers Ferdinand Pierre Beer, Elwood Russell Johnston, 1972 **International Young Physicists' Tournament: Problems & Solutions 2012-2013** Sihui Wang, Wenli Gao, 2014-10-20 Solutions to the 25th 26th International Young Physicists Tournament provides original quantitative solutions in fulfilling seemingly impossible tasks The book expands on the solutions required by the problems Many of the articles include modification extension to existing models in references or derivation and computation based on fundamental physics and are not confined to the models and methods in present literatures The International Young Physicists Tournament IYPT is one of the most prestigious international physics contests among high school students This book is based on the solutions of 2012 and 2013 IYPT problems The young authors provide quantitative solutions to practical problems in everyday life such as the 2013 problem Bouncing ball that shows how the nature of the collision changes if the ball contains liquid Colored plastic 2013 problem 6 and Helmholtz carousel 2013 problem 12 etc This book is intended as a college level solutions guide to the challenging open ended problems It is a good reference book for undergraduates advanced high school students physics educators and the curious public interested in the intriguing phenomenon encountered in daily life **Innovative solutions to human-wildlife conflicts** National Wildlife Research Center (U.S.), 2004 **Loftus's Inland Revenue Officers' Manual** ... William Harris Johnston, 1865 Loftus's Inland Revenue Officers' Manual: a guide to the duties and qualifications of persons employed in the Excise Surveying Department. Written and edited by W. H. J. ... [With] wood engravings, etc William Harris JOHNSTON, 1865 Human Services Online Jerry Finn, Gary Holden, 2024-11-01 Will your agency or students have the training to use the Internet in practice Human Services Online A New Arena for Service Delivery focuses on ways that Human Services are using the Internet for service delivery community education collaboration advocacy social change and resource development This valuable book highlights the array of innovative services now being offered on the Internet and provides guidelines and cautions for human service professionals in using the Internet to enhance their services Human Services Online A New Arena for Service Delivery provides much needed research and empirical evaluation related to human service online activities and points to areas where future research efforts should be directed The book describes and evaluates cutting edge Internet based services ethical and legal threats to agencies and consumers that may result from

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