

8-73.

The hook is subjected to the force of 80 lb. Determine the state of stress at point *B* at section *a-a*. The cross section has a diameter of 0.5 in. Use the curved-beam formula to calculate the bending stress.

SOLUTION

The location of the neutral surface from the center of curvature of the hook, Fig. *a*, can be determined from

$$R = \frac{A}{\int_A \frac{dA}{r}}$$

where $A = \pi(0.25^2) = 0.0625\pi \text{ in}^2$

$$\int_A \frac{dA}{r} = 2\pi (\bar{r} - \sqrt{\bar{r}^2 - c^2}) = 2\pi (1.75 - \sqrt{1.75^2 - 0.25^2}) = 0.11278 \text{ in.}$$

Thus,

$$R = \frac{0.0625\pi}{0.11278} = 1.74103 \text{ in.}$$

Then

$$r = \bar{r} - R = 1.75 - 1.74103 = 0.0089746 \text{ in.}$$

Referring to Fig. *b*, I and Q_B are computed as

$$I = \frac{\pi}{4} (0.25^4) = 0.9765625(10^{-3})\pi \text{ in}^4$$

$$Q_B = \bar{y}'A' = \frac{4(0.25)}{3\pi} \left[\frac{\pi}{2} (0.25^2) \right] = 0.0104167 \text{ in}^3$$

Consider the equilibrium of the FBD of the hook's cut segment, Fig. *c*.

$$+\circlearrowleft \sum F_x = 0; \quad N - 80 \cos 45^\circ = 0 \quad N = 56.57 \text{ lb}$$

$$+\uparrow \sum F_y = 0; \quad 80 \sin 45^\circ - V = 0 \quad V = 56.57 \text{ lb}$$

$$+\circlearrowleft \sum M_c = 0; \quad M - 80 \cos 45^\circ (1.74103) = 0 \quad M = 98.49 \text{ lb} \cdot \text{in.}$$

The normal stress developed is the combination of axial and bending stress. Thus,

$$\sigma = \frac{N}{A} + \frac{M(R - r)}{A r r}$$

Here, $M = 98.49 \text{ lb} \cdot \text{in.}$ since it tends to reduce the curvature of the hook. For point *B*, $r = 1.75 \text{ in.}$ Then

$$\begin{aligned} \sigma &= \frac{56.57}{0.0625\pi} + \frac{(98.49)(1.74103 - 1.75)}{0.0625\pi (0.0089746)(1.75)} \\ &= 1.48 \text{ psi (T)} \end{aligned}$$

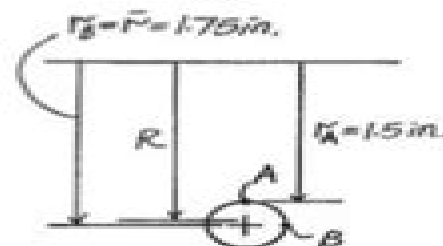
Ans.

The shear stress is contributed by the transverse shear stress only. Thus,

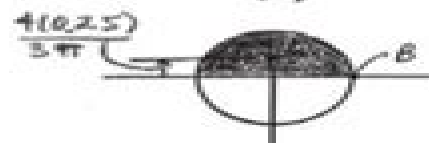
$$\tau = \frac{VQ_B}{Ib} = \frac{56.57 (0.0104167)}{0.9765625(10^{-3})\pi (0.5)} = 384 \text{ psi}$$

Ans.

The state of stress of point *B* can be represented by the element shown in Fig. *d*.



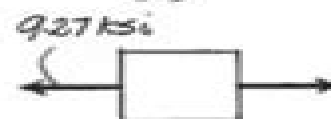
(a)



(b)



(c)



(d)

Ans: $\sigma = 1.48 \text{ psi (T)}, \tau = 384 \text{ psi}$

Solution Manual Popov Mechanics Of Materials

Judd E. Hollander



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Mechanics of Materials, SI Version : Solutions and Problems Egor Paul Popov,1978 **Method of Dimensionality Reduction in Contact Mechanics** Valentin L. Popov,Markus Hess,Emanuel Willert,2018-08-08 The present book is a collection of open access papers describing the foundations and applications of the Method of Dimensionality Reduction MDR first published in the Journal Facta Universitatis Series Mechanical Engineering in the years 2014 2018 The Method of Dimensionality Reduction MDR is a method of calculation and simulation of contacts of elastic and viscoelastic bodies It consists essentially of two simple steps a substitution of the three dimensional continuum by a uniquely defined one dimensional linearly elastic or viscoelastic foundation Winkler foundation and b transformation of the three dimensional profile of the contacting bodies by means of the MDR transformation As soon as these two steps are done the contact problem can be considered to be solved For axial symmetric contacts only a small calculation by hand is required which does not exceed elementary calculus and will not be a barrier for any practically oriented engineer Alternatively the MDR can be implemented numerically which is almost trivial due to the independence of the foundation elements In spite of its simplicity all results are exact The present book brings together papers covering the most important aspects of the MDR and providing a practical guide for its use **Mechanical Engineering News** ,1978 **Scientific and Technical Books and Serials in Print** ,1989 *American Book Publishing Record* ,1978 **Books in Print** ,1982 *Design Analysis in Rock Mechanics* William G. Pariseau,2011-09-29 This comprehensive introduction to rock mechanics treats the basics of rock mechanics in a clear and straightforward manner and discusses important design problems in terms of the mechanics of materials This extended second edition includes an additional chapter on Rock Bursts and Bumps a part on Basics Dynamics and has numerous additional examples and exercises throughout the chapters Developed for a complete class in rock engineering this volume uniquely combines the design of surface and underground rock excavations and addresses rock slope stability in surface excavations from planar block and wedge slides to rotational and toppling failures shaft and tunnel stability ranging from naturally supported openings to analysis and design of artificial support and reinforcement systems entries and pillars in stratified ground three dimensional caverns with emphasis on cable bolting and backfill geometry and forces of chimney caving combination support and trough subsidence rock bursts and bumps in underground excavations with focus on dynamic phenomena and on fast and sometimes catastrophic failures The numerous exercises and examples familiarize the reader with solving basic practical problems in rock mechanics through various design analysis techniques and their applications Supporting the main text appendices provide supplementary information about rock joint and composite properties rock mass classification schemes useful formulas and an extensive literature list The large selection of problems at the end of each chapter can be used for home assignment A solutions manual is available to course instructors Explanatory and illustrative in character this volume is suited for courses in rock mechanics rock engineering and geological

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