

$$\sigma_{xy} = \frac{1}{2} \left[(\sigma_x + \sigma_y) + \sqrt{(\sigma_x - \sigma_y)^2 + 4\tau_{xy}^2} \right] \quad (\because \tau_{xy} \neq 0)$$

$$= \frac{1}{2} \left[(21.759) + \sqrt{(21.759)^2 + 4(10.74)^2} \right]$$

$$= \frac{1}{2} \left[(21.759) + \sqrt{436.11} \right]$$

$$\sigma_{xy} = 17.63 \text{ N/mm}^2$$

Ans. 17

Maximum principal stress at Q (Using the same formula)

$$\sigma_{1P} = \frac{1}{2} \left[(-21.459) + \sqrt{(-21.459)^2 + 4(10.74)^2} \right]$$

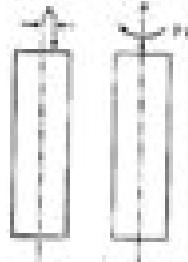
$$\sigma_{1P} = 21.99 \text{ N/mm}^2$$

Ans. 18

Result:Maximum normal (Principal) stress at top face = 21.99 N/mm²Maximum normal (Principal) stress at bottom face = -21.99 N/mm²

1.8 ECCENTRIC LOADING

In a more general case of axially loaded bars the load may act at an eccentricity from the center of gravity of the member (Fig. 1.20 (a)). If we want to "bring" the load to axis of center of gravity, we can use the principle of equivalent rectangular. The couple produced by the load P is $P \times e$, where e is the eccentricity. Now this couple and the force P , acting together in the center of gravity will be equivalent to the original eccentric loading (Fig. 1.20 (b)).



(a) Original eccentric loading



(b) Equivalent loading

Fig. 1.20 Eccentric loading of bars

Due to this, there are two types of stresses produced

1. Direct stress σ_x (Tensile or compressive)

In the case shown it is compressive, refer Fig. 1.21

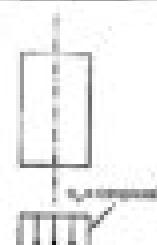


Fig. 1.21 Direct stress due to the load

This is given by $\sigma_x = \frac{\text{Force}}{\text{Cross sectional area}}$

$$(a) \sigma_x = \frac{P}{A}$$

2. Bending stress σ_y

This is due to the moment ($P \times e$). This results in different types of stresses on either side of the neutral axis of the section (Fig. 1.22), compressive on one side and tensile on the other. This stress is given as

$$(b) \sigma_y = \frac{M \cdot I}{I}$$

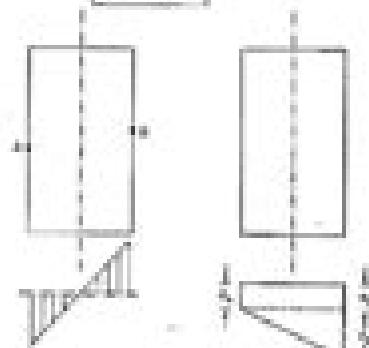


Fig. 1.22 Bending stress distribution

Fig. 1.23 Total stress distribution

Total Stress

The total stress on either side of the neutral axis is the algebraic sum of the two stresses σ_x and σ_y

$$(c) \sigma = \sigma_x + \sigma_y$$

Design Of Machine Elements Jayakumar

V. Jayakumar, Khairunisak Abdul Razak

Design Of Machine Elements Jayakumar:

Tribology of Machine Elements Giuseppe Pintaude,Tiago Cousseau,Anna Rudawska,2022-06-28 Tribology is a branch of science that deals with machine elements and their friction wear and lubrication Tribology of Machine Elements Fundamentals and Applications presents the fundamentals of tribology with chapters on its applications in engines metal forming seals blasting sintering laser texture biomaterials and grinding **ENGINEERING MECHANICS JAYAKUMAR**, V.,2012-01-01 Designed for the first year undergraduate students of all engineering disciplines this well written textbook presents a comprehensive coverage of the fundamental concepts principles and applications of engineering mechanics in an easy to comprehend manner The book presents an in depth analysis of various branches of engineering mechanics and the units of measurements It discusses the system of forces its characteristics and graphical representation along with composition of coplanar concurrent non concurrent forces in a simple but effective style Using a self instructive student friendly approach the book describes properties of surfaces which cover centre of gravity and moment of inertia Separate chapters are devoted to a thorough study of friction kinematics and kinetics of particles Finally this book explains the elements of rigid body dynamics **DESIGN OF MACHINE ELEMENTS (Subject Code MEC 604)** Vinod

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