

$$\begin{aligned}\sigma_{1,2} &= \frac{1}{2} \left[(49.4797) \pm \sqrt{(49.4797)^2 + 4(40.74)^2} \right] \quad \{\because \sigma_x = 0\} \\ &= \frac{1}{2} \left[49.4797 \pm \sqrt{(49.4797)^2 + 4(40.74)^2} \right] \\ &= \frac{1}{2} \left[49.4797 \pm \sqrt{5366.87} \right]\end{aligned}$$

$$\sigma_{1,2} = 87.63 \text{ N/mm}^2 \quad \text{Ans.} \quad \text{vii}$$

Maximum principal stress at J (Using the same formula)

$$\sigma_{1,2} = \frac{1}{2} \left[(-21.4797) \pm \sqrt{(-21.4797)^2 + 4(40.74)^2} \right]$$

$$\sigma_{1,2} = 21.99 \text{ N/mm}^2 \quad \text{Ans.} \quad \text{viii}$$

Result:

Maximum normal (Principal) stress at top face = 87.63 N/mm^2

Maximum normal (Principal) stress at bottom face = 21.99 N/mm^2

1.9. 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 of axis of center of gravity, we can use the principle of equivalent force-couple. 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_d (Tensile or compressive)

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

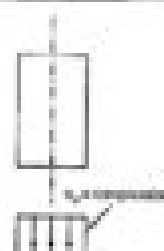


Fig. 1.21. Direct stress due to the load

This is given by $\sigma_d = \frac{\text{Force}}{\text{cross sectional area}}$

$$\text{i.e. } \sigma_d = \frac{P}{A}$$

2. Bending stress σ_b

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

$$\sigma_b = \frac{M \cdot y}{I}$$



Fig. 1.22. Bending stress distribution

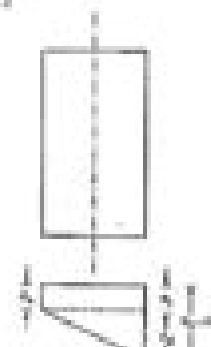


Fig. 1.23. Total stress distribution

Total Stress

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

i.e.

$$\text{i.e. } \sigma = \sigma_d \pm \sigma_b$$

Design Of Machine Elements Jayakumar

V. Jayakumar, Khairunisak Abdul Razak



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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 Thombre-Patil, Apeksha Thombre-Patil, 2020 The 1st edition of book entitled Design of Machine Elements for IIIrd Year Diploma Semester VI in Diploma in Mechanical Engineering Group as per the syllabus prescribed by SBTE We have observed the students facing extreme difficulties in understanding the basic principles and fundamental concepts without adequate solved problems along with the text To meet this basic requirement of students sincere efforts have been made to present the subject matter with frequent use of figures and lots of numerical examples **Finite Elements-based Optimization** S. Ratnajeevan H. Hoole, Yovahn Yesuraiyan R. Hoole, 2019-07-24 This book is intended to be a cookbook for students and researchers to understand the finite element method and optimization methods and couple them to effect shape optimization The optimization part of the book will survey optimization methods and focus on the genetic algorithm and Powell's method for implementation in the codes It will contain pseudo code for the relevant algorithms and homework problems to reinforce the theory to compile finite element programs capable of shape optimization Features Enables readers to understand the finite element method and optimization methods and couple them to effect shape optimization Presents simple approach with algorithms for synthesis Focuses on automated computer aided design CAD of electromagnetic devices Provides a unitary framework involving optimization and numerical modelling Discusses how to integrate open source mesh generators into your code Indicates how parallelization of algorithms especially matrix solution and optimization may be approached cheaply using the graphics processing unit GPU that is available on most PCs today Includes coupled problem optimization using hyperthermia as an example **Strategies and Techniques for Quality and Flexibility** Miryam Barad, 2017-11-03 This book presents strategic perspectives on quality and flexibility as well as quantitative tools for assessing their implementation

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Design of Machine Elements Virgil Moring Faires, 1965 *Engineering Systems, Equipment and Robotics* V. Jayakumar, Khairunisak Abdul Razak, 2024-02-05 Special topic volume with invited peer reviewed papers only

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
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