

$$\begin{aligned}\sigma_{1,2} &= \frac{1}{2} \left[(45.7597) \pm \sqrt{(45.7597)^2 + 4(40.74)^2} \right] \quad \left\{ \because \sigma_x = 0 \right\} \\ &= \frac{1}{2} \left[45.7597 \pm \sqrt{(45.7597)^2 + 4(40.74)^2} \right] \\ &= \frac{1}{2} \left[45.7597 \pm \sqrt{12365.87} \right]\end{aligned}$$

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

Maximum principal stress at J (Using the same formula)

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

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

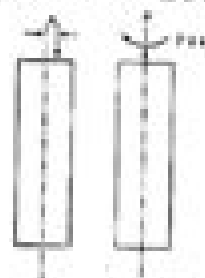
Result:

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.

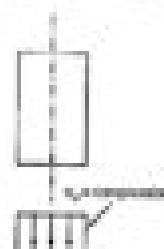


Fig. 1.21. Direct stress due to the load

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

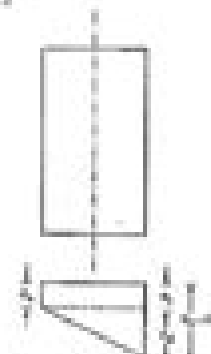


Fig. 1.23. Total stress distribution

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 Book Jayakumar

Ansel Ugural



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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 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 - II* Anup Goel, 2021-01-01 The term design means to plan for the construction of an object or the formulation of a plan for the satisfaction of need The term machine design deals with the design of machines their mechanisms and elements Design of Machine Element DME may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit Machine elements are basic mechanical parts and features used as the building blocks of most machines This book provides a systematic exposition of the basic concepts and techniques involved in design of machine elements This book covers design of important elements such as gears bearings and belt drives Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge 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 *Design of Machine Elements - I* Anup Goel, 2021-01-01 The term design means to plan for the construction of an object or the formulation of a plan for the satisfaction of need The term machine design deals with the design of machines their mechanisms and elements Design of Machine Element DME may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit Machine elements are basic mechanical parts and

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Scientific and Technical Books and Serials in Print ,1989 Design Of Machine Elements Babu & Sridhar,2010 **International Aerospace Abstracts** ,1999 *Design of Machine Elements: Volume II* T. Krishna Rao,2013-12-30 The book covers fundamental concepts description terminology force analysis and methods of analysis and design of various machine elements like Curved Beams Springs Spur Helical Bevel and Worm Gears Clutches Brakes Belts Ropes Chains Ball Bearings and Journal Bearings The emphasis in treating the machine elements is on the methods and procedures that give the student enough competence in applying these methods and procedures to mechanical components in general This book offers the students to learn to use the best available design knowledge together with empirical information logical judgment and often a degree of ingenuity in mechanical engineering design Following are the salient features of the book Compatible with the Machine Design Data Books of same publisher and other famous books Step by step procedure for design of machine elements Large and variety of problems solved Thought provoking exercise problems The example design problems and solution techniques are spelled out in detail Thorough and in depth treatment of design of the requisite machine elements Balance between analysis and design Emphasis on the materials properties and analysis of the machine elements Selection of Material and factor of safety are given for each machine element All the illustrations are done with the help of suitable diagrams As per Indian Standards

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