

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

$$\sigma_{1,2} = 87.63 \text{ N/mm}^2 \quad \text{Ans.} \quad 13$$

Maximum principal stress at J (Using the same formula)

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

$$\sigma_{1,2} = 21.99 \text{ N/mm}^2 \quad \text{Ans.} \quad 14$$

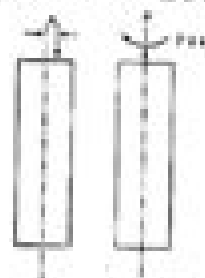
Result:

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.

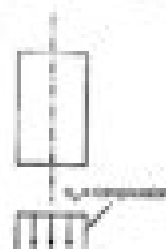


Fig. 1.21. Direct stress due to the load

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

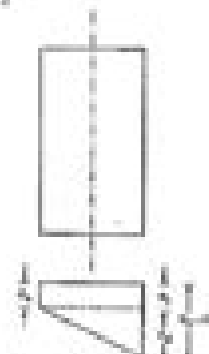


Fig. 1.23. Total stress distribution

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

Clifford Lane



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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

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

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

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 **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 in a range of systems It introduces readers to the global changes in the relative importance of quality strategies and flexibility strategies over the past 30 to 40 years In addition it presents detailed examples of how multi purpose techniques such as design of experiments petri nets and quality function deployment can be applied to evaluate quality and flexibility in the design planning and operation of various systems Uniquely the book combines strategies and quantitative research tools in a single volume It also includes many examples that are accessible to readers from different disciplines and familiarizes readers with techniques that can facilitate their current and future research making it a valuable resource for researchers practitioners and advanced students alike 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 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 mechanical elements such as shafts couplings springs and power screws under static load The design of welded and threaded joints and the members subjected to fluctuating loads is also included in this book 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

Engineering Systems, Equipment and Robotics V. Jayakumar,Khairunisak Abdul Razak,2024-02-05 Special topic volume with invited peer reviewed papers only *Deep Learning Networks* Jayakumar Singaram,S. S. Iyengar,Azad M.

Madni,2023-11-01 This textbook presents multiple facets of design development and deployment of deep learning networks for both students and industry practitioners It introduces a deep learning tool set with deep learning concepts interwoven to enhance understanding It also presents the design and technical aspects of programming along with a practical way to understand the relationships between programming and technology for a variety of applications It offers a tutorial for the

reader to learn wide ranging conceptual modeling and programming tools that animate deep learning applications The book is especially directed to students taking senior level undergraduate courses and to industry practitioners interested in learning about and applying deep learning methods to practical real world problems **Computer Vision and Shape**

Recognition Adam Krzyzak,T. Kasvand,Ching Y. Suen,1989 This is an up to date volume of selected and expanded papers originating from Vision Interface 88 a conference held in Edmonton Canada A broad range of topics are covered from image processing to hardware design They include robot vision biomedical imaging remote sensing and parallel processing shape recognition and features computational methods in vision and three dimensional vision and application **Advanced**

Mechanics in Robotic Systems Nestor Eduardo Nava Rodríguez,2011-07-22 Humans have always been fascinated with the concept of artificial life and the construction of machines that look and behave like people As the field of robotics evolves it demands continuous development of successful systems with high performance characteristics for practical applications Advanced Mechanics in Robotic Systems illustrates original and ambitious mechanical designs and techniques for developing new robot prototypes with successful mechanical operational skills Case studies are focused on projects in mechatronics that have high growth expectations humanoid robots robotics hands mobile robots parallel manipulators and human centred robots A good control strategy requires good mechanical design so a chapter has also been devoted to the description of suitable methods for control architecture design Readers of Advanced Mechanics in Robotic Systems will discover novel designs for relevant applications in robotic fields that will be of particular interest to academic and industry based researchers **STRUCTURAL ENGINEERING** Azharuddin Ahmed,Dr. S. Jayakumar,Dr. Vaishali Mendhe,Mr. A.

Venkatesan,Mr. Riyaz Syed, **Health Monitoring Systems** Rajarshi Gupta,Dwaipayan Biswas,2019-11-21 Remote health monitoring using wearable sensors is an important research area involving several key steps physiological parameter sensing and data acquisition data analysis data security data transmission to caregivers and clinical intervention all of which play a significant role to form a closed loop system Subject specific behavioral and clinical traits coupled with individual physiological differences necessitate a personalized healthcare delivery model for around the clock monitoring within the home environment Cardiovascular disease monitoring is an illustrative application domain where research has been instrumental in enabling a personalized closed loop monitoring system which has been showcased in this book Health Monitoring Systems An Enabling Technology for Patient Care provides a holistic overview of state of the art monitoring systems facilitated by Internet of Things IoT technology The book lists out the details on biomedical signal acquisition processing and data security the fundamental building blocks towards an ambulatory health monitoring infrastructure The fundamentals have been complimented with other relevant topics including applications which provide an in depth view on remote health monitoring systems Key Features Presents examples of state of the art health monitoring systems using IoT infrastructure Covers the full spectrum of physiological sensing data acquisition processing and data security Provides

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Heat Transfer XIV B. Sundén,C.A. Brebbia,2016-09-28 Starting in Portsmouth in 1988 Heat Transfer XIV Simulation and Experiments in Heat Transfer and its Applications contains the proceedings of the fourteenth conference in the well established series on Simulation and Experiments in Heat Transfer and its applications Heat Transfer might be considered as an established and mature scientific discipline but it has played a major role in new emerging areas such as sustainable development and reduction of greenhouse gases as well as for micro and nano scale structures and bioengineering Tremendous advances have been achieved during recent years due to improved numerical solution methods for non linear partial differential equations turbulence modelling advancements and developments of computers and computing algorithms to achieve efficient and rapid simulations The papers contained in this book present studies on advanced topics new approaches and applications of innovative advanced computational methods and experimental measurements to heat and mass transfer problems Further progress in computational methods requires developments in theoretical and predictive procedures and in applied research The following list covers some of the topics presented Energy conversion devices Heat transfer enhancements Heat exchanges Natural and forced convection Radiation Multiphase flow heat transfer Modelling and simulation Heat recovery Heat and mass transfer problems Heat transfer in nature Renewable energy systems Biotechnology Thermal electric devices and High temperature heat transfer

Futuristic Technology for Sustainable Manufacturing Singh, Sujit,Gupta, Sumit,Jagtap, Sandeep,2024-07-17 In the manufacturing industry a major concern persists the historical entanglement of this sector with environmental issues Climate change and resource depletion cast a shadow over traditional practices demanding a paradigm shift As our planet grapples with these challenges the imperative for sustainable manufacturing practices becomes undeniable Futuristic Technology for Sustainable Manufacturing addresses the environmental conundrums tied to manufacturing This groundbreaking book delves into transformative technologies such as artificial intelligence renewable energy integration innovative materials and the Internet of Things By providing a profound analysis of these futuristic solutions the book aims to guide academic scholars towards a comprehensive understanding of how these technologies can usher in a greener more sustainable era in manufacturing The urgent need for sustainable manufacturing practices is palpable and this book rises to the occasion by providing a nuanced analysis of how these revolutionary technologies can propel the industry towards a greener future From the role of artificial intelligence in smart manufacturing to sustainable materials applications the book not only illuminates the current state of affairs but also sparks inspiration for a new generation of researchers engineers and entrepreneurs As a

persuasive call to action the book empowers its readership to contribute actively to the ongoing transformation fostering a resilient ecologically responsible future where technology and sustainability harmonize Deep Foundations for Infrastructure Development in India, Volume 1 Dhananjay L. Shah, Jaykumar Shukla, Deepankar Choudhury, 2025-03-31 This book contains select proceedings of the 12th annual conference of Deep Foundations Institute of India DFI India 2023 held during 05-07 October 2023. The book showcases the advancement in deep foundation technologies through articles on research works and case histories under sub themes: 1 Deep foundation and deep excavation techniques 2 Sustainability practices in deep foundation industry 3 Innovative techniques and testing for foundations and geotechnical investigations monitoring and performance 4 Construction and QA/QC of deep foundations including case studies 5 Ground improvement techniques 6 Geotechnics for marine near shore and coastal construction 7 Innovations in experimental and numerical methods in deep foundations and ground improvement 8 Futuristic technologies in deep foundations large diameter piles helical piles monopiles tiebacks driving devices etc. legal and contractual aspects of deep foundation construction projects. The articles covered in this book are of immense value to professionals and academicians for improving their work practice.

The Materials Handling Engineering Division 75th Anniversary Commemorative Volume Eric M. Malstrom, Ira W. Pence, 1994. Contains papers from the November 1994 congress plus papers and recollections of historical interest commemorating the 75th anniversary of the ASME Materials Handling Engineering Division. Papers discuss subjects such as material flow systems information technology and control strategies material handling issues in adaptive manufacturing systems and historical perspectives on the industry. Lacks an index. Annotation copyright by Book News Inc Portland OR.

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