$$\sigma_{p1} = \frac{1}{2}\left[(\sigma_x - \sigma_y) + \sqrt{(\sigma_x - \sigma_y)^2 + 4\tau_{xy}^2}\right] \qquad (\because \sigma_y = 0)$$

$$= \frac{1}{2}\left[68.7593 + \sqrt{(68.7593)^2 + 4(60.74)^2}\right]$$

$$= \frac{1}{2}\left[68.7593 + \sqrt{19466.81}\right]$$

$$\sigma_{p1} = 87.68 \text{ N/mm}^2 \qquad\qquad \text{Ans.}$$

Maximum principal stress at Q (Using the same formula)

$$\sigma_{p1} = \frac{1}{2}\left[(-23.4797) + \sqrt{(-23.4797)^2 + 4(60.74)^2}\right]$$

$$\sigma_{p1} = 21.998 \text{ N/mm}^2 \qquad\qquad \text{Ans.}$$

Result:

Maximum normal (Principal) stress at top face = 87.68 N/mm²

Maximum normal (Principal) stress at bottom face, = 21.998 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 at axis of center of gravity, we can use the principle of equivalent force-couple. The couple produced by the load P is P × e, where e is the eccentricity. Now this couple and the force P, acting together at 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)
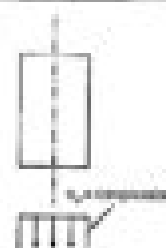
In the case shown it is compressive, refer fig. 1.21.

Fig. 1.21. Direct stress due to the load

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

i.e. $\sigma_d = \dfrac{P}{A}$

2. Bending stress σ_b

This is due to the moment (P × 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
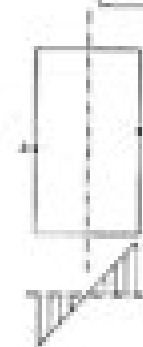
$$\boxed{\sigma_b = \frac{M \cdot y}{I}}$$

Fig. 1.22. Bending stress distribution   Fig. 1.23. Total stress distribution
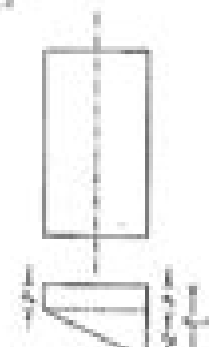
Total Stress

The total stress on either side of the neutral axis is the algebraic sum of the two stresses i.e. σ_b.

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

Design Of Machine Elements Jayakumar

Vinod Thombre-Patil,Apeksha Thombre-Patil

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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   **Recent Advances in Mechanical Engineering, Volume 2** Gujjala Raghavendra,B. B. V. L. Deepak,Manoj Gupta,2024-06-17 This book presents select proceedings of International Conference on Mechanical Engineering Researches and Evolutionary Challenges ICMech REC 23 It covers the latest research in the areas of mechanical engineering and materials applications Various topics covered in this book are materials composite nano advanced design methodologies industry 4 0 smart manufacturing thermodynamics mechatronics robotics soft computing and automation The contents of this book are useful to the researchers and professionals working in the different areas of mechanical engineering   **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   *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

Particle Accelerators, Colliders, and the Story of High Energy Physics Raghavan Jayakumar,2011-10-27 This book takes the readers through the science behind particle accelerators colliders and detectors the physics principles that each stage of the development of particle accelerators helped to reveal and the particles they helped to discover The book culminates with a description of the Large Hadron Collider one of the world s largest and most complex machines operating in a 27 km circumference tunnel near Geneva The book provides the material honestly without misrepresenting the science for the sake of excitement or glossing over difficult notions The principles behind each type of accelerator is made accessible to the undergraduate student and even to a lay reader with cartoons illustrations and metaphors Simultaneously the book also caters to different levels of reader s background and provides additional materials for the more interested or diligent reader *Soft Computing and Geospatial Techniques in Water Resources Engineering* Manish Pandey,K. V. Jayakumar,Manali Pal,Vijay P. Singh,2024-12-01 This book comprises proceedings of the 28th International Conference on Hydraulics Water Resources River and Coastal Engineering HYDRO 2023 It focuses on emerging opportunities and challenges in the field of soft computing and geospatial techniques in water resources engineering The book covers a range of topics including but not limited to satellite derived data for hydrologic applications Geospatial Information System GIS and Remote Sensing RS applications in water resources management rainfall and streamflow prediction hydro informatics data driven and artificial intelligent based hydrological modelling optimization of water resources systems The book presents these topics in the form of illustrations and tables thereby providing the readers with an in depth insight into the recent research It also addresses fundamental concepts and studies in the field of soft computing and geospatial techniques in water resources engineering making it a valuable resource for researchers and professionals working in the fields of hydraulics water resources and coastal engineering **Polymer Crystallization** Jyotishkumar Parameswaranpillai,Jenny Jacob,Senthilkumar Krishnasamy,Aswathy Jayakumar,Nishar Hameed,2023-06-28 Polymer Crystallization Control the development of polymer crystals with this groundbreaking introduction Polymer crystallization is a crucial component of polymer development that impacts processing applications presentation and more Intervention in the polymer crystallization process in the form of nanofilters compatibilizers and more has the potential to improve optical and chemical properties improve degrees of crystallinity and increase the hardness of polymer composites The myriad applications of crystalline polymers make this one of the most exciting and fast growing fields in polymer research Polymer Crystallization provides a comprehensive introduction to this field and its most important recent developments It characterizes and analysis an

expansive range of crystalline polymers and discusses possible mechanisms for influencing their crystallization processes to impact a variety of outcomes and applications These applications include industries from food packaging to automotive parts to medical and aerospace materials Polymer Crystallization readers will also find Detailed treatment of polymer morphology rheology modeling and more Thorough introduction to the fundamentals of polymer crystallization Discussion of environmental safety issues and avenues for future research Polymer Crystallization is a useful reference for materials scientists polymer scientists biomedical scientists and advanced undergraduate and graduate students in these and related fields **Design of Flexible Production Systems** Tullio Tolio,2008-12-11 In the last decade the production of mechanical components to be assembled in final products produced in high volumes e g cars mopeds industrial vehicles etc has undergone deep changes due to the overall modifications in the way companies compete Companies must consider competitive factors such as short lead times tight product tolerances frequent market changes and cost reduction Anyway companies often have to define production objectives as trade offs among these critical factors since it can be difficult to improve all of them Even if system flexibility is often considered a fundamental requirement for firms it is not always a desirable characteristic of a system because it requires relevant investment cost which can jeopardize the profitability of the firm Dedicated systems are not able to adapt to changes of the product characteristics while flexible systems offer more flexibility than what is needed thus increasing investment and operative costs Production contexts characterized by mid to high demand volume of well identified families of products in continuous evolution do not require the highest level of flexibility therefore manufacturing system flexibility must be rationalized and it is necessary to find out the best trade off between productivity and flexibility by designing manufacturing systems endowed with the right level of flexibility required by the production problem This new class of production systems can be named Focused Flexibility Manufacturing Systems FFMSs The flexibility degree in FFMSs is related to their ability to cope with volume mix and technological changes and it must take into account both present and future changes The required level of system flexibility impacts on the architecture of the system and the explicit design of flexibility often leads to hybrid systems i e automated integrated systems in which parts can be processed by both general purpose and dedicated machines This is a key issue of FFMSs and results from the matching of flexibility and productivity that respectively characterize FMSs and Dedicated Manufacturing Systems DMSs The market share of the EU in the machine tool sector is 44% the introduction of focused flexibility would be particularly important for machine tool builders whose competitive advantage is based on the ability of customizing their systems on the basis of needs of their customers In fact even if current production contexts frequently present situations which would fit well with the FFMS approach tradition and know how of machine tool builders play a crucial role Firms often agree with the focused flexibility vision nevertheless they decide not to pay the risk and efforts related to the design of this new system architecture This is due also to the lack of well structured design approaches which can help machine tool builders to

configure innovative systems Therefore the FFMS topic is studied through the book chapters following a shared mission To define methodologies and tools to design production systems with a minimum level of flexibility needed to face during their lifecycle the product and process evolution both in the technological and demand aspects The goal is to find out the optimal trade off between flexibility and productivity The book framework follows the architecture which has been developed to address the FFMS Design problem This architecture is both broad and detailed since it pays attention to all the relevant levels in a firm hierarchy which are involved in the system design Moreover the architecture is innovative because it models both the point of view of the machine tool builder and the point of view of the system user The architecture starts analyzing Manufacturing Strategy issues and generating the possible demand scenario to be faced Technological aspects play a key role while solving process plan problems for the products in the part family Strategic and technological data becomes input when a machine tool builder performs system configuration The resulting system configurations are possible solutions that a system user considers when planning its system capacity All the steps of the architecture are deeply studied developing methods and tools to address each subproblem Particular attention is paid to the methodologies adopted to face the different subproblems mathematical programming stochastic programming simulation techniques and inverse kinematics have been used The whole architecture provides a general approach to implement the right degree of flexibility and it allows to study how different aspects and decisions taken in a firm impact on each other The work presented in the book is innovative because it gives links among different research fields such as Manufacturing Strategy Process Plan System Design Capacity Planning and Performance Evaluation moreover it helps to formalize and rationalize a critical area such as manufacturing system flexibility The addressed problem is relevant at an academic level but also at an industrial level A great deal of industrial sectors need to address the problem of designing systems with the right degree of flexibility for instance automotive white goods electrical and electronic goods industries etc Attention to industrial issues is confirmed by empirical studies and real case analyses which are presented within the book chapters Digital Design and Manufacturing of Medical Devices and Systems Rajkumar Velu,Karupppasamy Subburaj,Anand Kumar Subramaniyan,2024-02-22 This book coherently presents the advances in technological principles processes and methods of Additive Manufacturing AM Augmented reality AR and Internet of things IoT in biomedical technology It offers an overview of these high impact technologies in terms of materials processes and in situ monitoring of fabricating biomedical devices implants and prosthetics Furthermore the book also aimed to cover pedagogical applications including the design and development of high fidelity anatomical and hybrid physiological human models for medical and design students and clinicians for learning understanding and gaining insights into the structures and functions of human organs and pathology In turn the book also discusses the applications of artificial intelligence in the 3 D printing of pharmaceuticals This book is a useful resource for manufacturers scientists engineers and young research scholars understand disruptive technology s real potential in

biomedicalapplications   **Virtual Modelling and Rapid Manufacturing** Paulo Jorge da Silva Bartolo,2005-09-15 Virtual Modelling and Rapid Manufacturing presents essential research in the area of Virtual and Rapid Prototyping It contains reviewed papers that were presented at the 2nd International Conference on Advanced Research in Virtual and Rapid Prototyping held at the School of Technology and Management of the Polytechnic Institute of Leiria Portugal from September 28 to October 1 2005 The volume covers a wide range of topical subjects such as medical imaging reverse engineering virtual reality and prototyping biomanufacturing and tissue engineering advanced rapid prototyping technologies and micro fabrication biomimetics and materials and concurrent engineering   **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,   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 **Advances in Welding Technologies for Process Development** Jaykumar Vora,Vishvesh J. Badheka,2019-02-22 Within manufacturing welding is by far the most widely used fabrication method used for production leading to a rise in research and development activities pertaining to the welding and joining of different similar and dissimilar combinations of the metals This book addresses recent advances in various welding processes across the domain including arc welding and solid state welding process as well as experimental processes The content is structured to update readers about the working principle predicaments in existing process innovations to overcome these problems and direct industrial and practical applications Key Features Describes recent developments in welding technology engineering and science Discusses advanced computational techniques for procedure development Reviews recent trends of implementing DOE and meta heuristics optimization techniques for setting accurate parameters Addresses related theoretical practical and industrial aspects Includes all the aspects of welding such as arc welding solid state welding and weld overlay **Model Validation and Uncertainty Quantification, Volume 3** Robert Barthorpe,2019-05-30 Model Validation and Uncertainty Quantification Volume 3 Proceedings of the 37th IMAC A Conference and Exposition on Structural Dynamics 2019 the third volume of eight from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Model Validation and Uncertainty Quantification including papers on Inverse Problems and Uncertainty Quantification Controlling Uncertainty Validation of Models for Operating Environments Model Validation Uncertainty Quantification Decision Making Uncertainty Quantification in Structural Dynamics Uncertainty in Early Stage Design Computational and Uncertainty Quantification Tools **Practical Non-destructive Testing** Baldev Raj,T. Jayakumar,M. Thavasimuthu,2002 This comprehensive book covers the five major NDT methods liquid penetrants eddy currents magnetic particles radiography and ultrasonics in detail and also considers newer methods such as acoustic emission and thermography and discusses their role in on line monitoring of plant components Analytical techniques such as reliability studies and statistical quality control are considered in terms of their ability to reduce inspection costs and limit down time A useful chapter provides practical guidance on selecting the right method for a given situation *Machine Learning Algorithms for Industrial Applications* Santosh Kumar Das,Shom Prasad Das,Nilanjan Dey,Aboul-Ella Hassanien,2020-07-18 This book explores several problems and their solutions regarding data analysis and prediction for industrial applications Machine learning is a prominent topic in modern industries its influence can be felt in many aspects of everyday life as the world rapidly embraces big data and data analytics Accordingly there is a pressing need for novel and innovative algorithms to help us find effective solutions in industrial application areas such as media healthcare travel finance and retail In all of these areas data is the crucial parameter and the main key to unlocking the value of industry The book presents a range of intelligent algorithms that can be used to filter useful information in the above mentioned

application areas and efficiently solve particular problems Its main objective is to raise awareness for this important field among students researchers and industrial practitioners   *CAD/CAM Robotics and Factories of the Future* Birendra Prasad,1989-11-28 The total integration of the process of designing manufacturing and supporting a product from the earliest conceptual phase to the time it is removed from service remains an unfulfilled dream Yet when we look at the enormity of the process of integration even for the most simply conceived and manufactured items we can recognize that substantial progress has been and is being made It is our nature to be dissatisfied with near term progress but when we realize how short a time the tools to do that integration have been available the progress is clearly noteworthy considering the multitudes of subjects we have to deal with Most of the integration problems we confront today are multidisciplinary in nature They require not only the knowledge and experience in a variety of fields but also good cooperation from different disciplined organizations to adequately comprehend and solve such problems In Volume I we have many examples that reflect the current state of the art in integration of engineer ing and production processes The papers for Volume I have been arranged in a more or less logical order of conceptual design computer based modeling analysis production and manufacturing Chapter I is devoted to those with a design and geometrie modeling emphasis Chapter II is devoted to an engineering analysis emphasis and Chapter III to a production manufacturing emphasis   **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

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