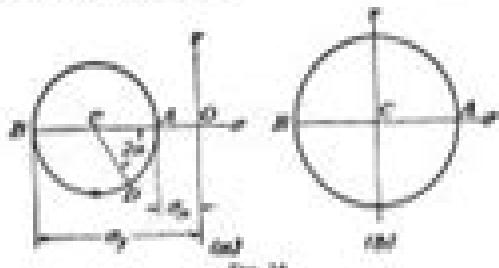
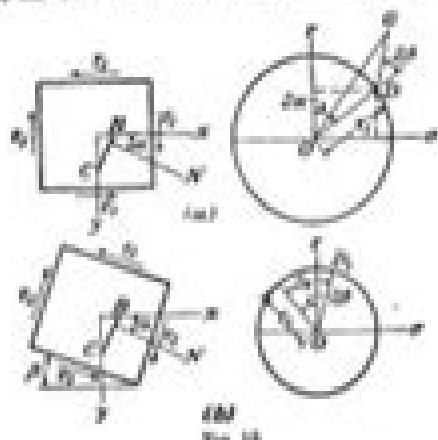


The diagram can be used also in the case when one or both principal stresses are negative (compression). It is only necessary to change the sign of the abscissa for compressive stress. In this manner Fig. 14a represents the case when both principal stresses are negative and Fig. 14b the case of pure shear.



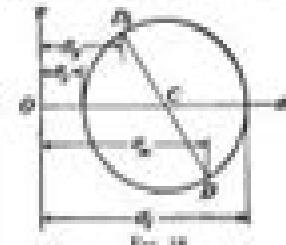
From Figs. 13 and 14 it is seen that the stress at a point can be resolved into two parts: One, uniform tension or compression, the magnitude of which is given by the distance of the center of the circle, and the other, pure shear, the magnitude of which is given by the radius of the circle. When several plane stress distributions are superposed, the uniform tensions or compressions can be added together



algebraically. The pure shear must be added together by taking into account the directions of the planes on which they are acting. It can be shown that, if we superpose two systems of pure shear whose planes of maximum shear make an angle of β with each other, the resulting system will be another case of pure shear. For example, Fig. 11 represents the determination of stress on any plane defined by α , produced by two pure shear of magnitude τ_1 and τ_2 acting one on the plane

and σ_3 (Fig. 12a) and the other on the planes inclined to σ_1 and σ_2 by the angle α (Fig. 12b). In Fig. 12a the coordinates of point D represent the shear and normal stress on plane CD produced by the first system, while the coordinates of D₂ (Fig. 12b) give the stresses on this plane for the second system. Adding σ_{12} and σ_{22} , geometrically we obtain σ_{33} , the resultant stress on the plane due to both systems, the coordinates of D giving on the shear and normal stress. Note that the magnitude of σ_{33} does not depend upon α . Hence, as the result of the superposition of two shears, we obtain a State circle for pure shear, the magnitude of which is given by σ_{33} , the planes of maximum shear being inclined to the σ_1 and σ_2 planes by an angle equal to half the angle CDD_2 .

A diagram, such as shown in Fig. 13, can be used also for determining principal stresses if the stress components $\sigma_x, \sigma_y, \sigma_{xy}$ for any two perpendicular planes (Fig. 12) are known. We begin in such a case with the plotting of the two points D and D_0 , representing stress conditions on the two coordinate planes (Fig. 14). In this manner the diameter DD_0 of the circle is obtained. Constructing the circle, the principal stresses σ_1 and σ_2 are obtained from the intersection of the circle with the stress axis. From the locus we find



100

$$r_1 = \partial C + CB = \frac{r_2 + r_3}{2} + \sqrt{\left(\frac{r_2 - r_3}{2}\right)^2 + r_0^2} \quad (46)$$

$$r_2 = \partial C - CB = \frac{r_2 + r_3}{2} - \sqrt{\left(\frac{r_2 - r_3}{2}\right)^2 + r_0^2}$$

The maximum shearing stress is given by the radius of the circle, i.e.

$$r_{\text{min}} = \frac{1}{2} (r_1 + r_2) = \sqrt{\left(\frac{r_1 - r_2}{2}\right)^2 + r_{\text{ap}}^2} \quad (17)$$

In this manner all necessary features of the stress distribution at a point can be obtained if only the three stress components σ_x , σ_y , τ_{xy} are known.

Strain at a Point. When the strain components ϵ_x , ϵ_y , γ_{xy} at a point are known, the unit elongation for any direction, and the decrease of a right angle—the shearing strain—of any orientation at the point can be found. A line element PQ (Fig. 17a) between the points (x, y) , $(x + dx, y + dy)$ is translated, stretched (or contracted) and rotated into the line element $P'Q'$ when the deformation occurs. The de-

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Andreas Öchsner

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Improved Numerical Methods for Solutions of a Beam's Axial, Torsion and Flexure Problems Zvi Friedman,1997

A Project-Based Introduction to Computational Statics Andreas Öchsner,2020-11-13 This book uses a novel concept to teach the finite element method applying it to solid mechanics This major conceptual shift takes away lengthy theoretical derivations in the face to face interactions with students and focuses on the summary of key equations and concepts and to practice these on well chosen example problems For this new 2nd edition many examples and design modifications have been added so that the learning by doing features of this book make it easier to understand the concepts and put them into practice The theoretical derivations are provided as additional reading and students must study and review the derivations in a self study approach The book provides the theoretical foundations to solve a comprehensive design project in tensile testing A classical clip on extensometer serves as the demonstrator on which to apply the provided concepts The major goal is to derive the calibration curve based on different approaches i e analytical mechanics and based on the finite element method and to consider further design questions such as technical drawings manufacturing and cost assessment Working with two concepts i e analytical and computational mechanics strengthens the vertical integration of knowledge and allows the student to compare and understand the different concepts as well as highlighting the essential need for benchmarking any numerical result

Finite Element Analysis of Solids and Structures Sudip S. Bhattacharjee,2021-07-18 Finite Element Analysis of Solids and Structures combines the theory of elasticity advanced analytical treatment of stress analysis problems and finite element methods numerical details of finite element formulations into one academic course derived from the author's teaching research and applied work in automotive product development as well as in civil structural analysis Features Gives equal weight to the theoretical details and FEA software use for problem solution by using finite element software packages Emphasizes understanding the deformation behavior of finite elements that directly affect the quality of actual analysis results Reduces the focus on hand calculation of property matrices thus freeing up time to do more software experimentation with different FEA formulations Includes chapters dedicated to showing the use of FEA models in engineering assessment for strength fatigue and structural vibration properties Features an easy to follow format for guided learning and practice problems to be solved by using FEA software package and with hand calculations for model validation This textbook contains 12 discrete chapters that can be covered in a single semester university graduate course on finite element analysis methods It also serves as a reference for practicing engineers working on design assessment and analysis of solids and structures Teaching ancillaries include a solutions manual with data files and lecture slides for adopting professors

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the exceptional qualities of these projects in connecting structural form to architectural design objectives Mosaic layouts

complete the chapters with a collection of photographs of yet more models whose particular details and unique features serve to extend the visual repertoire of the structural type being considered. The combination juxtaposition and mutual positive reinforcement of these two collections one largely textual and the other image based provides the reader with unique and multifaceted insights into how structural forms and systems can be related to architectural design intentions. Conveyed by a strong and deliberate graphical design format this assembly of materials gets to the very essence of structures within the context of architecture and will inspire students and practitioners alike to make strategic design decisions for their own projects.

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