

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.

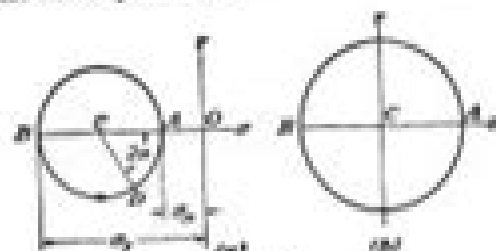


FIG. 14.

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 abscissa 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

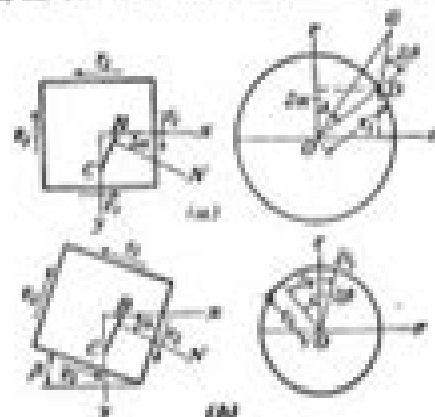


FIG. 15.

algebraically. The pure shears 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 β with each other, the resulting system will be another case of pure shear. For example, Fig. 15 represents the determination of stress on any plane defined by α , produced by two pure shears of magnitude τ_1 and τ_2 acting one on the planes

at angles α and $\alpha + \beta$ to the x and y axes by the angle β (Fig. 15b). In Fig. 15a the coordinates of point D represent the shear and normal stress on plane CD produced by the first system, while the coordinates of B, (Fig. 15a) give the stresses on this plane for the second system. Adding CD and DB, geometrically we obtain OD, the resultant stress on the plane due to both systems, the coordinates of D giving us the shear and normal stress. Note that the magnitude of OD does not depend upon α . Hence, as the result of the superposition of two shears, we obtain a Mohr's circle for pure shear, the magnitude of which is given by OD, the planes of maximum shear being inclined to the x and y planes by an angle equal to half the angle COD.

A diagram, such as shown in Fig. 13, can be used also for determining principal stresses if the stress components σ_x , σ_y , τ_{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', representing stress conditions on the two coordinate planes (Fig. 16). In this manner the diameter DD', 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 abscissa axis. From the figure we find

$$\begin{aligned}\sigma_1 &= OC + CD = \frac{\sigma_x + \sigma_y}{2} + \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2} \\ \sigma_2 &= OC - CD = \frac{\sigma_x + \sigma_y}{2} - \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}\end{aligned}\quad (16)$$

The maximum shearing stress is given by the radius of the circle, G_{\max} ,

$$G_{\max} = \frac{1}{2}(\sigma_1 - \sigma_2) = \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}\quad (17)$$

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.

15. **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 dis-

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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

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