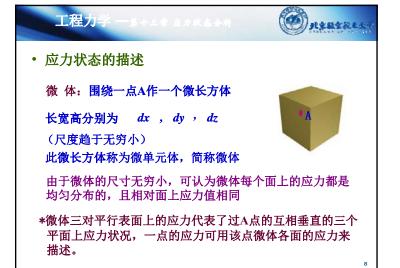
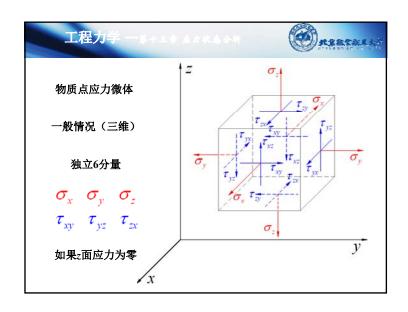
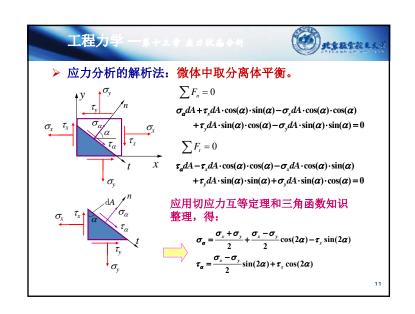
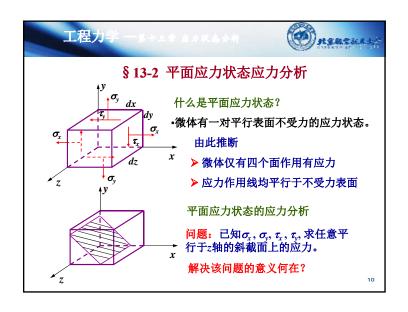


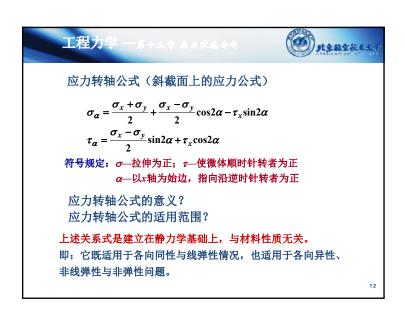
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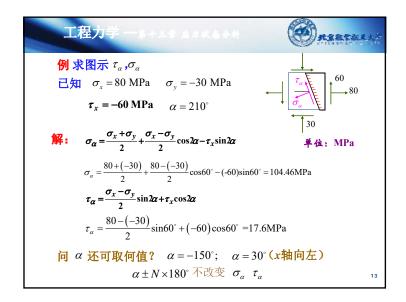


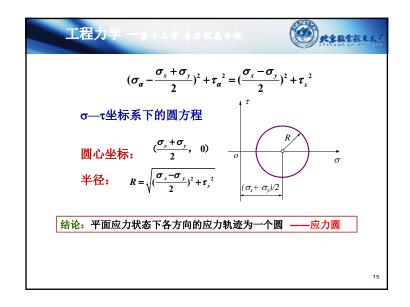


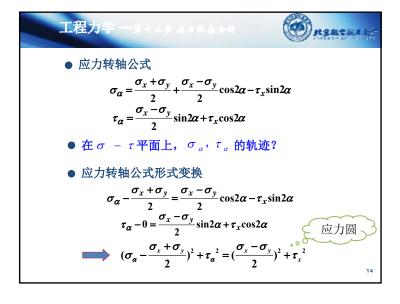


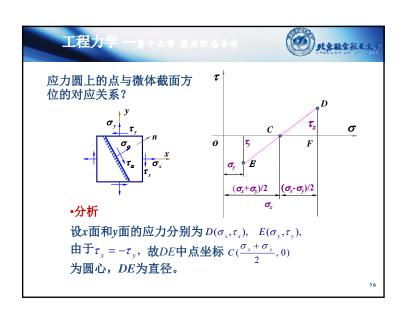


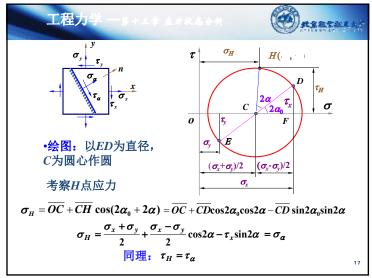


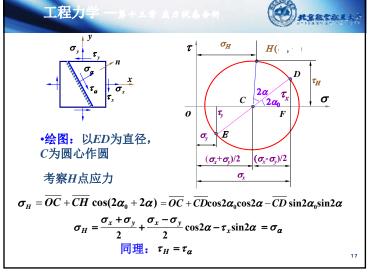


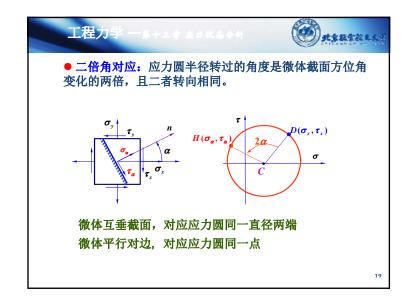


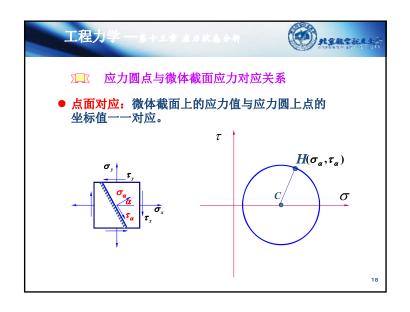


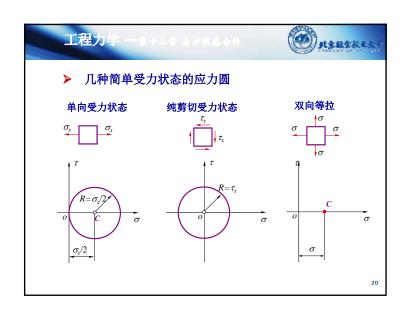


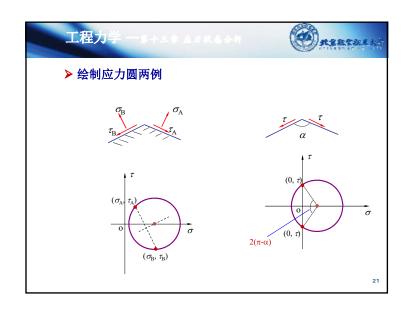


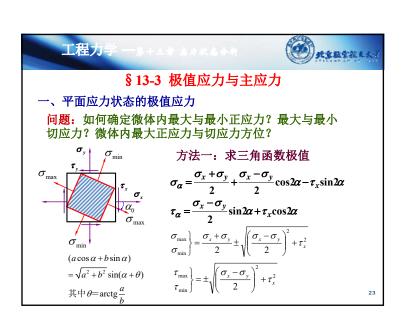


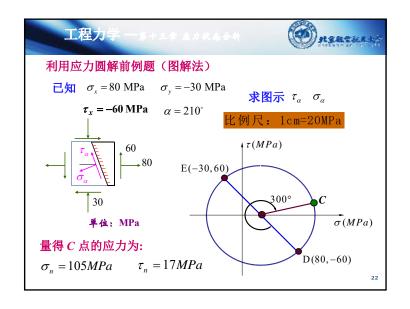


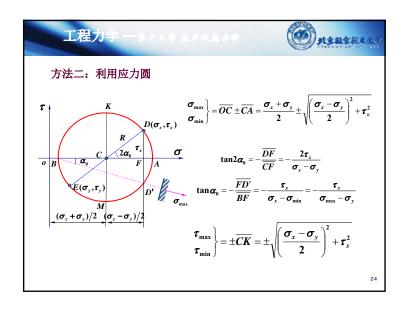








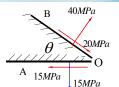




工程力学 一条十三章 点力状态分析

MERTALLY

例: 平面应力状态下,物体内一点O在A、B两截面上的应力如图 所示,求该点的最大正应力和切应力及A,B两截面的夹角 θ



图解法:按比例尺画出应力圆

1cm = 10MPa

最大正应力点在D点,进行测量;最大切应力点在E点,进行测量;对A、B两截面的夹角进行测量

$$\begin{array}{c|c}
 & A(15,15) + E \\
\hline
 & C_1
\end{array}$$

$$\begin{array}{c|c}
 & B(40,20) \\
\hline
 & C_1
\end{array}$$

 $\sigma_{\text{max}} = 53MPa$ $\tau_{\text{max}} = 22MPa$

 $\theta = \alpha = 36^{\circ}$

