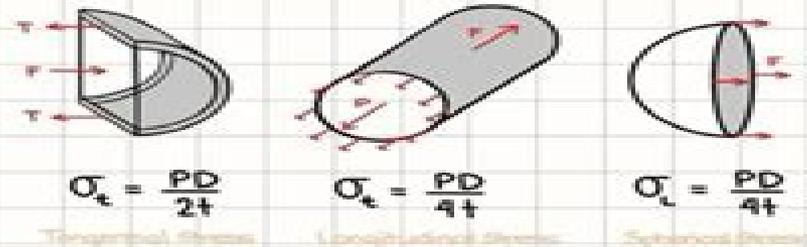


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DEFORMATIONS



THIN-WALLED CYLINDER



$$\sigma_t = \frac{PD}{2t}$$

$$\sigma_l = \frac{PD}{4t}$$

$$\sigma_s = \frac{PD}{4t}$$

Tangential Stress

Longitudinal Stress

Spherical Stress

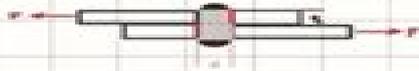
STRESS

Normal Stress $\sigma = \frac{P}{A}$



ANALYSIS OF BOLT CONNECTION

Bearing Stress



$$\sigma_b = \frac{F}{dt}$$



Shear Stress



$$\tau_s = \frac{F}{\frac{\pi}{4}d^2}$$



$$\tau_b = \frac{F}{2\left(\frac{\pi}{4}d^2\right)}$$



$$\tau_p = \frac{F}{\pi dt}$$

AXIAL DEFORMATION

$$\mu = -\frac{\epsilon_y}{\epsilon_x} = -\frac{\epsilon_z}{\epsilon_x} \quad \text{Poisson's Ratio}$$

$$\epsilon_x = \frac{\sigma_x}{E} - \mu \frac{\sigma_y}{E} \quad \text{Biaxial Deformation}$$

$$\epsilon_x = \frac{1}{E} [\sigma_x - \mu(\sigma_y + \sigma_z)]$$

$$\epsilon_y = \frac{1}{E} [\sigma_y - \mu(\sigma_x + \sigma_z)]$$

$$\epsilon_z = \frac{1}{E} [\sigma_z - \mu(\sigma_x + \sigma_y)]$$

Triaxial Deformation

$$G = \frac{E}{2(1+\mu)} \quad \text{Modulus of Rigidity}$$

$$E = \frac{\sigma}{\epsilon} \quad \text{Modulus of Elasticity}$$

TORSION POWER

$$P = T\omega = 2\pi TN$$

STIFFNESS

$$k = \frac{P}{\delta}$$

	SIMPLE	SHEAR	TORSION
STRESS	$\sigma = \frac{P}{A}$	$\tau = \frac{V}{A}$	$\tau = \frac{T}{J}$
STRAIN	$\epsilon = \frac{\delta}{L}$	$\gamma = \frac{\delta_s}{r}$	$\gamma = \frac{r\theta}{L}$
MODULUS	$E = \frac{\sigma}{\epsilon}$	$G = \frac{\tau}{\gamma}$	$G = \frac{T}{r\theta}$
DEFORMATION	$\delta = \frac{PL}{AE}$	$\delta_s = \frac{VL}{AG}$	$\theta = \frac{TL}{JG}$

THERMAL STRESS



$$\delta_T = \alpha L \Delta T \quad \text{elongation due to temp}$$

$$\delta_P = \frac{PL}{AE} \quad \text{elongation due to axial stress}$$

$$= \frac{\sigma L}{E}$$



$$\delta_T = \delta_P$$

$$\alpha L \Delta T = \sigma + \frac{\sigma L}{E}$$

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IM Harris



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Table of Contents Strength Of Materials

1. Understanding the eBook Strength Of Materials
 - The Rise of Digital Reading Strength Of Materials
 - Advantages of eBooks Over Traditional Books
2. Identifying Strength Of Materials
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Strength Of Materials
 - User-Friendly Interface
4. Exploring eBook Recommendations from Strength Of Materials
 - Personalized Recommendations
 - Strength Of Materials User Reviews and Ratings
 - Strength Of Materials and Bestseller Lists
5. Accessing Strength Of Materials Free and Paid eBooks
 - Strength Of Materials Public Domain eBooks
 - Strength Of Materials eBook Subscription Services
 - Strength Of Materials Budget-Friendly Options

6. Navigating Strength Of Materials eBook Formats
 - ePub, PDF, MOBI, and More
 - Strength Of Materials Compatibility with Devices
 - Strength Of Materials Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Strength Of Materials
 - Highlighting and Note-Taking Strength Of Materials
 - Interactive Elements Strength Of Materials
8. Staying Engaged with Strength Of Materials
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Strength Of Materials
9. Balancing eBooks and Physical Books Strength Of Materials
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Strength Of Materials
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Strength Of Materials
 - Setting Reading Goals Strength Of Materials
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Strength Of Materials
 - Fact-Checking eBook Content of Strength Of Materials
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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