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MADE EASY MECHANICAL ENGINEERING Strength Of Material By-Krishna Sir

- Theory
- Explanation
- Derivation
- Example
- Shortcuts
- Previous Years Ouestion With Solution

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STREGTH OF MATERIAL

OR

MECHANICS OF MATERIAL

OR

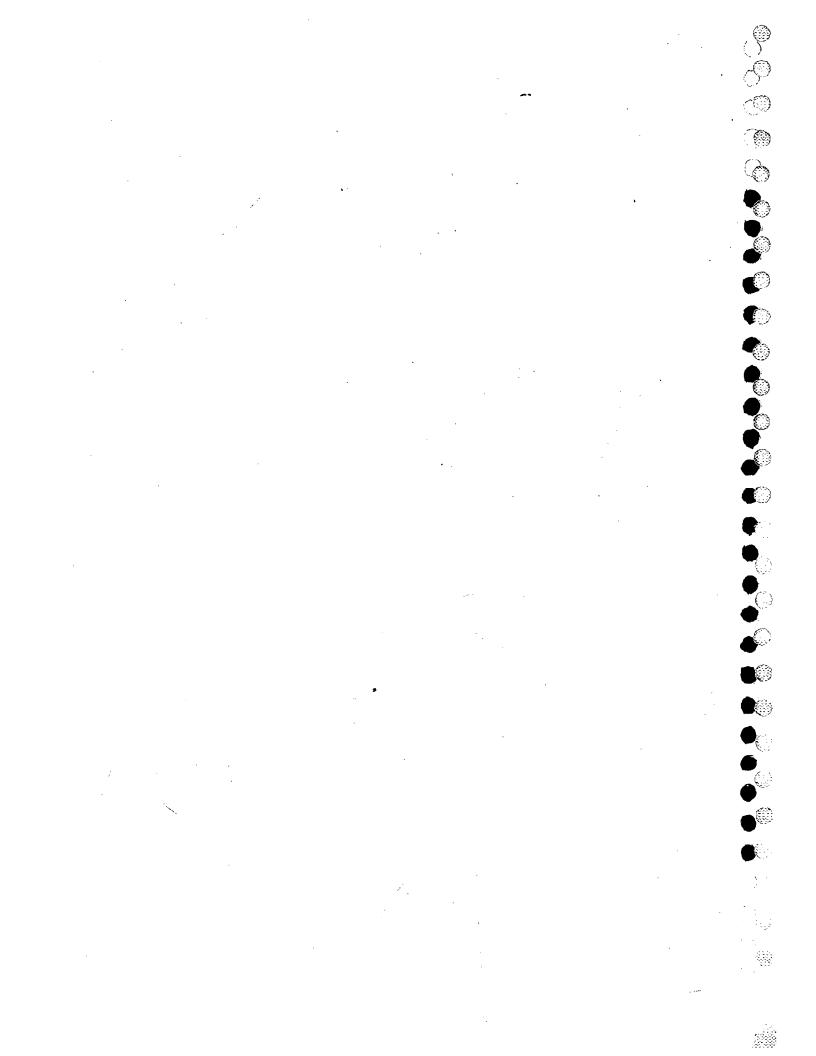
MECHANICS OF SOLIDS

OR

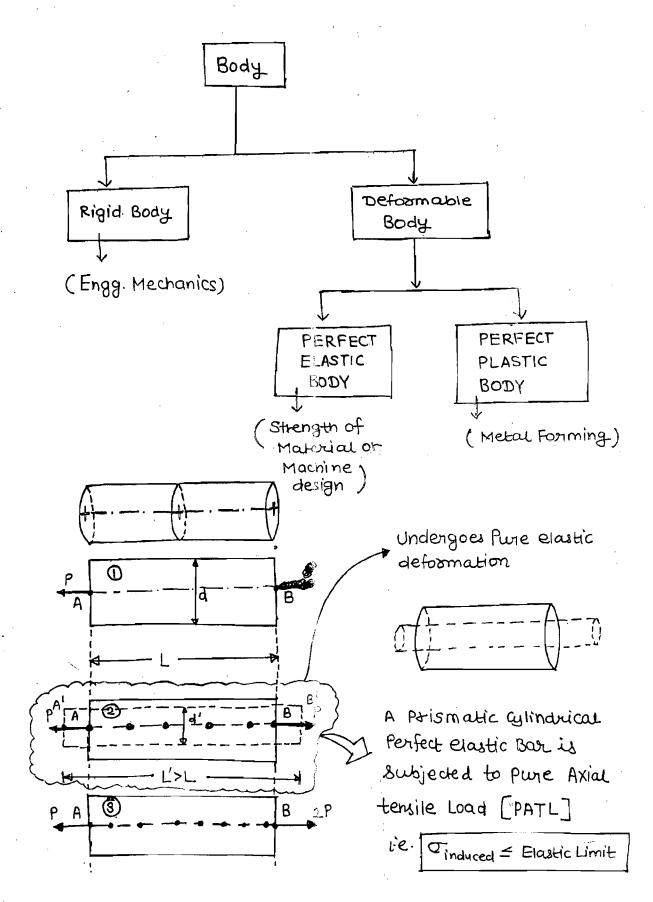
MECHANICS OF STRUCTURE

OR

MECHANICS OF PERFECT ELASTIC BODIES



- · Oinduced ≤ Elastic Limit >> Perfect elastic Body
- · Financed > Yield Strength > Perfect Plastic Body



>Axc of ciocle Shear = Bending = Twisting moment moment

Axial boad = constant

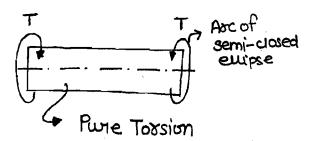
Page Bending

Bending - Two equal Parallel opposite eccentric axia load Couple

Sie.

Axial Load = Shear = Twisting = ZERO Force Moment

Bending moment = Constant



Togisional - Two equal and opposite forallel eccentric Couple tranverse snear Load.

Adia () ad = Snear force = Bending = zero Moment

Tonsional Moment = Constant

Pure exial Load

$$O_{Q} = \frac{P}{A}$$
; $S_{L} = \frac{PL}{AE}$