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3. BEAMS: STRAIN, STRESS, DEFLECTIONS The Beam, Or ...Distribution Rather Than By Substitution Of  $\sigma$  For  $\epsilon$  In Eqs. 3.3 Or 3.7. Note That For A Beam In Pure Bending Since No Load Is Applied In The Z-direction,  $\sigma_z$  Is Zero Throughout The Beam. However, Because Of Loads Applied In The Y-direction To Obtain The Bending

Moment,  $\sigma_y$  is not zero, but it is small enough compared to  $\sigma_x$  to neglect. 1th, 2024  
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Load Of Concrete Being Placed • This Deflection Can Be Exaggerated In A  
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Procedure To Calculate  
Deflections Of Curved Beams\*The Bending Stiffness Of The Curved Beam Is  $EI$  And  
The Torsional Rigidity Is  $GK_t$  (uniform Along The Beam). The Material Is Linear  
Elastic;  $E$  Is The Modulus Of Elasticity (Young's Modulus) And  $G$  Is The Shear  
Modulus. The Second Moment Of The Cross-sectional Area Is Denoted  $I$ , And  $K_t$  Is  
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Deflection Of Prestressed Concrete  
Beams Due To The Effects Of Creep And Shrinkage As Discussed Above. Objective  
Based On The Previous Discussion The Specific Objective Of This Study May Now  
Be Stated. \*An Unbalanced Section In A Prestressed Concrete Mem Ber Is A Section  
For Which The Centroid Of The Net Concrete 4th, 2024  
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Discontinuity Functions 3. Method Of  
Method Of Superposition 4.  
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