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6/2/2013 2 • Deflection Is A Result From The Load Action To The Beam (self Weight,
Service Load Etc.) • If The Deflection Value Is Too Large, The Beam Will Bend And
Then Fail. Therefore It Is Vital That Deflection Must 1th, 2024 Chapter 9 Deflections
Of Beams $13 \text{ 0q L 4 B} = - V(L) = \frac{CC}{30 EI}$ (\downarrow) Example 9-5 An Overhanging Beam
ABC With A Concentrated Load P Applied At The End Determine The Equation Of
Deflection Curve And The Deflection C At The End Flexural Rigidity Of The Beam Is
EI The Shear Forces In Parts AB And BC Are P 2th, 2024 Chapter 9 Deflections Of
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3. BEAMS: STRAIN, STRESS, DEFLECTIONS The Beam, Or ...Distribution Rather Than By Substitution Of σ For ϵ In Eqs. 3.3 Or 3.7. Note That For A Beam In Pure Bending Since No Load Is Applied In The Z-direction, σ_z Is Zero Throughout The Beam. However, Because Of Loads Applied In The Y-direction To Obtain The Bending

Moment, σ_y is not zero, but it is small enough compared to σ_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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In 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
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Method Of Superposition 4.
Moment-area Method area Method ©2005 Pearson Education South Asia Pte Ltd 1.

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