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Discontinuity Functions (McCaulay) O The Virtual Unit-load Method OBJECTIVES .  
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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Analyze The Beam In Which The Number Of Reactions Exceed The Number Of  
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Method Of Superpos 2th, 2024.  
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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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S/cambering\_in\_steel\_beams\_260.pdf • Supporting Beams Will Deflect Under The  
Load Of Concrete Being Placed • This Deflection Can Be Exaggerated In A  
Composite Floor System Where The Full Strength Of The System Is Not Achieved  
Until The Concrete Has Cured • Cambered Be 2th, 2024  
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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Deflections Of Prestressed Concrete Beams  
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  
For Which The Centroid Of The Net Concrete 4th, 2024  
12. Deflections Of Beams And  
Shafts - KSU Discontinuity Functions 3. Method Of  
Method Of Superposition 4.  
Moment-area Method area Method ©2005 Pearson Education South Asia Pte Ltd 1.

12. Deflections Of Beams And Shafts 12.1 THE ELASTIC CURVE • It Is Useful To Sketch The Deflected Shape Of The Loaded Beam, To “visualize” Computed Results And ... 1th, 2024 Deflections Of Beams And Shafts (1) • A is The Location On The Beam Where A “discontinuity” Occurs, Or The Point Where A Distributed Loading Begins. • Integrating Macaulay Functions, We Get • The Functions Describe Both Uniform Load And Triangular Load.  $\frac{1}{6} N^3 X^3$  Slope And Displacement By Discontinuity Functions 4th, 2024. Determining Deflections Of Hinge-Connected Beams • Discontinuity In The Slope Of The Beam Under Loading. Beginners Tend To Have A Misconception That Singularity Functions Are A Powerful Mathematical Tool, Which Can Allow One To Analyze The Loads On The Entire Beam Without The Need To Divide It Into Segments. It Is Pointed Out In This 1th, 2024

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