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O The Use Of 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 11th, 2024

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13 0q L 4 B = -  $V(L) = CCC (\downarrow) 30 EI$  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

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1. FBD And Equilibrium For The Entire Beam →equations For Reaction Forces And Moments 2. Divide The Beam Into Segments. Use FBDs And Equilibrium To Find Equations For The Moment  $M(x)$  In Each Segment 3. Write Down The Moment-curvature Equation For Each Segment: 4. Integrate The Moment-curvature Equation Twice →equations For  $V'(x)$  And  $V(x)$ . 9th, 2024

### **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. 12th, 2024

### **Deflections Of Composite Beams With Web Openings**

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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 TheFile Size: 166KBPage Count: 11 21th, 2024

### **Deflections Of Prestressed Concrete Beams**

Ing Deflection Of Prestressed Concrete Beams Due To The Effects Of Creep And Shrinkage As Discussed Above. Objective Based On The Previous Discussion The Specific Objec-tive Of This Study May Now Be Stated. \*An Unbalanced Section In A

Prestressed Concrete Member Is A Section For Which The Centroid Of The Net Concrete 3th, 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 loaded Beam, To “visualize” Computed Results And computed Results And ... 14th, 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.  $\int C N^3$  Slope And Displacement By Discontinuity Functions 6th, 2024

### **Determining Deflections Of Hinge-Connected Beams**

ence Of 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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