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3.1.1 Stress-Strain Behavior of Structural Steel Structuralsteelisanimportantconstructionmaterial. Itpossessesattributessuchasstrength,stiffness, toughness, and ductility that are very desirable in modern constructions. Strength is the ability of a material to resist stresses. It is measured in terms of the material's yield strength,  $F_y$ , and ultimate

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