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The creep model derived by Harmathy is an important model since it is widely used for modeling creep in A36 structural steels. The Harmathy creep model considers both primary and secondary creep, and the creep rate in this model is expressed as follows: ε ˙ cr = f 1 (σ) f 2 (T) f ˜ 3 (ε cr) where (4) f 1 (σ) = 0.026 σ 4.7 1.23 × 10 16 exp (0.0003 σ) σ 15000 psi 15 , 000 psi σ 45000 psi f 2 (T) = C exp - Q RT f ˜ 3 (ε cr) = coth 2 ε t ε t 0

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Creep processes may cause excessive deformations, damage, buckling, crack initiation and growth. Different types of creep failure in the recent years are discussed in the literature. Examples of critical structural members include pipe bends [186], welds [297], turbine blade root fixings [127], etc.

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