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In the creep-fatigue regime, a modeling analysis dealing with fatigue or creep loading conditions separately is not adequate for safety and

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reliability of design (Naumenko and Altenbach, 2007;...

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(PDF) Modeling of Creep for Structural Analysis

Buy Modeling of Creep for Structural Analysis (Foundations of Engineering Mechanics) Softcover reprint of hardcover 1st ed. 2007 by Naumenko, Konstantin, Altenbach, Holm (ISBN: 9783642089817) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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About this book. "Creep Modeling for Structural Analysis" develops methods to simulate and analyze the time-dependent changes of stress and strain states in engineering structures up to the critical stage of creep rupture. The principal subjects of creep mechanics are the formulation of constitutive equations for creep in structural materials under multi-axial stress states; the application of structural mechanics models of beams, plates, shells and three-dimensional solids and the ...

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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:  $\dot{\epsilon}_{cr} = f_1(\sigma) f_2(T) f_3(\dot{\epsilon}_{cr})$  where (4)  $f_1(\sigma) = 0.026 \sigma^{4.7} 1.23 \times 10^{-16} \exp(0.0003 \sigma)$   $f_2(T) = 15000 \text{ psi} \leq \sigma \leq 45000 \text{ psi}$   $f_2(T) = C \exp - Q/RT$   $f_3(\dot{\epsilon}_{cr}) = \coth 2 \dot{\epsilon}_{cr} t_0$

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Modeling of high temperature creep in ASTM A992 structural ...

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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184 Mathematical Modeling of Creep and Shrinkage form expression for  $n = 0.1$ ,  $m = 0.$ ), and  $A_0 = 1$  day has been found:  $Q(t, t') \sim Q\{.1 + (\sim)' \}^{-1/r}$  (2.105) with  $Z=t, -m \ln [1 + (t-t')^J]$  (2.106) in which  $\log Qf = - [0.1120 + 0.4308 \log t' + 0.0019(\log t')^2J]$

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