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fatigue or creep loading conditions separately is not adequate for safety and reliability of design (Naumenko and Altenbach, 2007;...

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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.

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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)

$f_1(\sigma) = 0.026 \sigma^{4.7} 1.23$

$\times 10^{-16} \exp(0.0003 \sigma)$

$f_2(T) = 15000 \text{ psi}$

$f_3(\dot{\epsilon}_{cr}) = 15,000$

$\text{psi} \quad f_2(T) = C \exp(-Q/RT)$

$f_3(\dot{\epsilon}_{cr}) = \coth^2(\dot{\epsilon}_{cr} t) / t$

$f_3(\dot{\epsilon}_{cr}) = \coth^2(\dot{\epsilon}_{cr} t) / t$

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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

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the literature. Examples of critical structural members include pipe bends [186], welds [297], turbine blade root fixings [127], etc.

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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 $Z = t, -m \ln [1$

$+(t-t')^n J$ (2.106) in

which $\log Q_f = -$

$[0.1120 + 0.4308 \log t'$

$+ 0.0019(\log t')^2 J]$

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