



Applied Creep Mechanics

Thomas Hyde, Wei Sun, Christopher Hyde

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Complete coverage of design and life assessment methods for high-temperature components

Applied Creep Mechanics fully discusses the time-dependent deformation which occurs in a metal when subjected to stress at an elevated temperature. This book explains how to perform detailed analyses of welded components; assess the conditions under which cracks may initiate and grow; and extract valuable information about the current state of the material, which may have been in service for many years.

This practical guide provides tested techniques for improving the design and life assessment methods for high-temperature components in power plants, chemical plants, and aero engines. The information presented in this book will help you optimize maintenance and repair, save time, reduce costs, and improve operational efficiency.

- Provides real-world industrial perspective on how to apply techniques to practical problems
- Case studies with linear and non-linear material behavior models
- Solution methods based on equilibrium compatibility and stress-strain and energy concepts
- Discusses high-temperature creep of engineering components; high-temperature structural analysis; high-temperature fracture mechanics; and damage mechanics
- Covers welded, notched, and cracked components
- State-of-the-art coverage of thermo-mechanical fatigue (TMF)

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