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Microstructural evolution in such alloys determines the long-term performance such as creep life. This chapter concentrates on modelling creep in solid solution-strengthened and precipitation-strengthened nickel alloys.

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their development 5
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for improved capacity and efficiency, and the need for long term service. Additional challenges are presented by the requirement to cycle plants to meet peak-load operation. This book presents a comprehensive review of structural materials in ...

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Contents ix 11.10
Fatigue induced by
thermal strain 343
11.11 Fatigue crack
growth and
interactions 345 11.12
Conclusion 350 11.13
References 353 12
Radiation damage to
structural alloys in
nuclear power plants:
mechanisms and
remediation 355 G. S.
Was, University
of Michigan, USA and P.L.
Andresen, General

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For Power Plants

Electric Global
Research, USA 12.1
Introduction 355 12.2
Overview: the radiation
damage event 356

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9 to 12Cr steels have
been used in power
plants with steam
temperature near 600
°C due to their higher
oxidation resistance as
well as higher creep

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strength than low-Cr
steels such as
2.25Cr-1Mo steel. 12Cr
steels are superior to
9Cr steels in terms of
oxidation resistance,
because the oxidation
resistance generally
improves with
increasing Cr
concentration.

**Development of
creep-resistant
steels and alloys for
use ...**

structural alloys in the

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presence of mixtures of synthetic coal ash, alkali sulfates, and alkali chlorides. Candidate alloys are also ... components that are capable of operating at much higher temperatures than those found in current coal-fired power plants. Component reliability and long-term, trouble-free performance of structural materials ...

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**Coal-ash Corrosion
of Alloys for
Combustion Power
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explained beginning
with elementary
principles.

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