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**Structural Alloys For Power Plants**

The high temperature capability of nickel alloys makes them critical for power plant applications. 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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Current fleets of conventional and nuclear power plants face increasing hostile environmental conditions due to increasingly high temperature operation 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 ...

**Structural Alloys for Power Plants: Operational Challenges ...**

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7 Ferritic and martensitic steels for power plants P.J. Ennis, University of Leicester, UK Abstract: The metallurgical background and the physical properties of the steels used in power plants are ... - Selection from Structural Alloys for Power Plants [Book]

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

structural alloys in the 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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Bainitic steels and alloys for power plants - Structural Alloys for Power Plants - 6 : This chapter concerns bainitic steels for power plants based on low-carbon, low-alloy steels. The various transformations in steel – particularly bainitic transformations – are explained beginning with elementary principles.

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