



# High Temperature Deformation and Fracture of Materials (Woodhead Publishing in Materials)

*Jun-Shan Zhang*

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The energy, petrochemical, aerospace and other industries all require materials able to withstand high temperatures. High temperature strength is defined as the resistance of a material to high temperature deformation and fracture. This important book provides a valuable reference to the main theories of high temperature deformation and fracture and the ways they can be used to predict failure and service life.

- Analyses creep behaviour of materials, the evolution of dislocation substructures during creep, dislocation motion at elevated temperatures and importantly, recovery-creep theories of pure metals
- Examines high temperature fracture, including nucleation of creep cavity, diffusional growth and constrained growth of creep cavities
- A valuable reference to the main theories of high temperature deformation and fracture and the ways they can be used to predict failure and service life

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