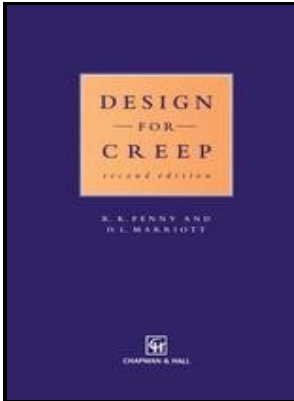


Engineering aspects of creep

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Creep

International Union of Theoretical and Applied Mechanics.

Creep (deformation)

The creep rate, the slope of the curve is high at first, but it soon decreases. Creep deformation generally occurs when a material is stressed at a temperature near its melting point. For the low-alloy steels of T-11 and T-22, the carbide phase spheroidizes.

Creep and Fracture of Engineering Materials and Structures

In metals, creep failure occurs at the grain boundaries to give an intergranular fracture. The creep rate accelerates as the stress per unit area increases until the specimen finally fails.

Creep

Above this critical stress, the creep rate grows disproportionately faster.

Practical Aspects of Model Creep Work

The rate of creep is highly dependent on both stress and temperature.

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