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Nota di contenuto	Creep and Damage of Materials at Elevated Temperatures -- Anisotropic Plasticity During Non-proportional Loading -- Anisotropy of Yield/Failure Criteria - Comparison of Explicit and Implicit Formulations -- Time-dependent and Time-independent Models of Cyclic Plasticity for Low-cycle and Thermomechanical Fatigue Life Assessment -- Damage and Failure of Composite Materials.
Sommario/riassunto	The book introduces advanced theories for deformation, damage, and failure in materials. The overall continuum mechanical framework was marked out and added by creep and damage mechanics of materials at elevated temperatures. The time-dependent and time-independent models of cyclic plasticity for low cycle and thermomechanical fatigue life assessment were specified in a very special manner: instead of three-dimensional statements, only one-dimensional rheological models were discussed. Anisotropic plasticity during non-proportional loading and anisotropy of yield/failure criteria is more and more

important in modern applications. It is showing how the limit states of materials can be estimated. In addition, the damage and failure of composite materials demonstrate the possibility to extend continuum mechanics to continuum damage mechanics of composite materials.
