

Fracture and Fatigue: Elasto-Plasticity, Thin Sheet and Micromechanisms Problems (International series on the strength and fracture of materials and structures)

J.C. Radon

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Fracture and Fatigue: Elasto-Plasticity, Thin Sheet and Micromechanisms Problems covers the proceedings of the Third Colloquium on Fracture. The book discusses the development and applications of fracture mechanics.

The contents of the text are organized according to the areas of concerns. The first part deals with elastoplastic fracture mechanics, which includes topics such as fracture mechanics in the elastic-plastic regime and sizing of the geometry dependence and significance of maximum load toughness values. Part II covers the micromechanisms of fracture, which includes the aspects of crack growth under monotonic loading and the effect of secondary hardening on the fracture toughness of a bainitic microstructure. Part III concerns itself with thin sheet fracture mechanics, which includes R-curves evaluation for center-cracked panels and use of the R-curve for design with contained yield.

The book will be of great interest to researchers and professionals whose work involves fracture mechanics.



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