



Advances in Research on the Strength and Fracture of Materials: Fatigue

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Advances in Research on the Strength and Fracture of Materials: Volume 2Bs-Fatigue contains the proceedings of the Fourth International Conference on Fracture, held at the University of Waterloo, Canada, in June 1977. The papers review the state of the art with respect to fracture in a wide range of materials such as metals and alloys.

This volume is comprised of 85 chapters and opens by discussing the metallographic aspects of fatigue in pearlitic structures and the dislocation diffusion mechanism of fatigue crack formation. The reader is then introduced to localized plastic deformation and fracture in slip bands during fatigue loading of age hardening aluminum alloys; the microstructure of fatigue fracture surfaces in titanium; mechanisms of liquid metal embrittlement, stress corrosion cracking, and corrosion-fatigue; and the fatigue behavior of macroscopic slag inclusions in steam turbo-generator rotor steels. A model for fatigue crack initiation in polycrystalline solids is also described.

This monograph will be a useful resource for metallurgists, materials scientists, and structural and mechanical engineers.

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