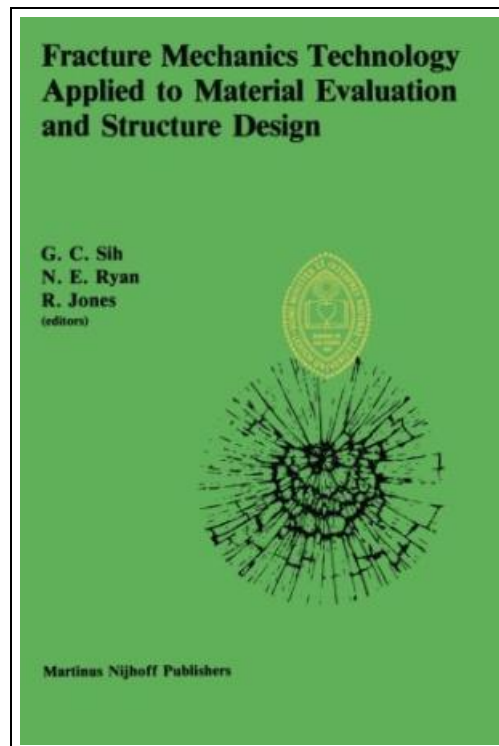


Fracture Mechanics Technology Applied to Material Evaluation and Structure Design



Filesize: 1.53 MB

Reviews

This sort of book is almost everything and helped me looking in advance and much more. Yes, it can be enjoy, nevertheless an amazing and interesting literature. Its been written in an extremely simple way which is simply right after i finished reading this publication through which in fact altered me, alter the way i really believe.

(Lizeth Witting)

FRACTURE MECHANICS TECHNOLOGY APPLIED TO MATERIAL EVALUATION AND STRUCTURE DESIGN



Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of an International Conference on 'Fracture Mechanics Technology Applied to Material Evaluation and Structure Design', held at the University of Melbourne, Melbourne, Australia, August 10-13, 1982 | The International Conference on Fracture Mechanics Technology Applied to Material Evaluation and Structure Design was held in Melbourne, Australia, from August 10 to 13, 1982. It was sponsored jointly by the Australian Fracture Group and Institute of Fracture and Solid Mechanics at Lehigh University. Professor G. C. Sih of Lehigh University, Drs. N. E. Ryan and R. Jones of Aeronautical Research Laboratories served as Co-Chairmen. They initiated the organization of this international event to provide an opportunity for the practitioners, engineers and interested individuals to present and discuss recent advances in the evaluation of material and structure damage originating from defects or cracks. Particular emphases were placed on applying the fracture mechanics technology for assessing interactions between material properties, design and operational requirements. It is timely to hold such a Conference in Australia as she embarks on technology extensive industries where safeguarding structures from premature and unexpected failure is essential from both the technical and economical points. view The application of system-type approach to failure control owes much of its success to fracture mechanics. It is now generally accepted that the discipline, when properly implemented, provides a sound engineering basis for accounting in interactions between material properties, design, fabrication, inspection and operational requirements. The approach offers effective solutions for design and maintenance of large-scale energy generation plants, mining machineries, oil exploration and retrieval equipments, land, sea and air transport vehicles. | General Lectures.- Mechanics of subcritical crack growth.- Damage tolerance through the control of microstructure.- A review of elasto-plastic fracture design methods and suggestions for a related...



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