

Multiscale Fatigue Crack Initiation And Propagation Of Engineering Materials

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From the contents: - Contributors.- Foreword.- Technical Contributions.- Application of virtual testing for obtaining fracture allowable of aerospace and aircraft materials.- An equivalent block approach to crack growth.- Prediction of fatigue crack growth rates in Ti-6Al-4V alloy.- Some practical implications of exponential crack growth.- Fatigue behaviour of FS, LB and MIG welds of AA6061-T6 and AA6082-T6.- Fatigue Damage from Surface to Bulk.- Microcracking in high temperature low cycle fatigue.- Invariant form of micro-/macro-cracking in fatigue.- Fatigue crack growth rate of cable-stayed portion of Runyang bridge: Part I cable crack growth due to disproportionate cable tightening/loosening and traffic loading.- Fatigue crack growth rate of cable-stayed portion of Runyan bridge: Part II steel wire crack growth due to disproportionate cable tightening/loosening and traffic loading.- Fatigue of small-scale metal materials: from micro-to macro-scale.- Assessment of fatigue damage in heterogeneous materials by application of a novel compliance technique.- Fatigue crack growth of aircraft aluminum alloys. EAN/ISBN : 9781402085208 Publisher(s): Springer Netherlands Format: ePub/PDF Author(s): Sih, G. C.

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