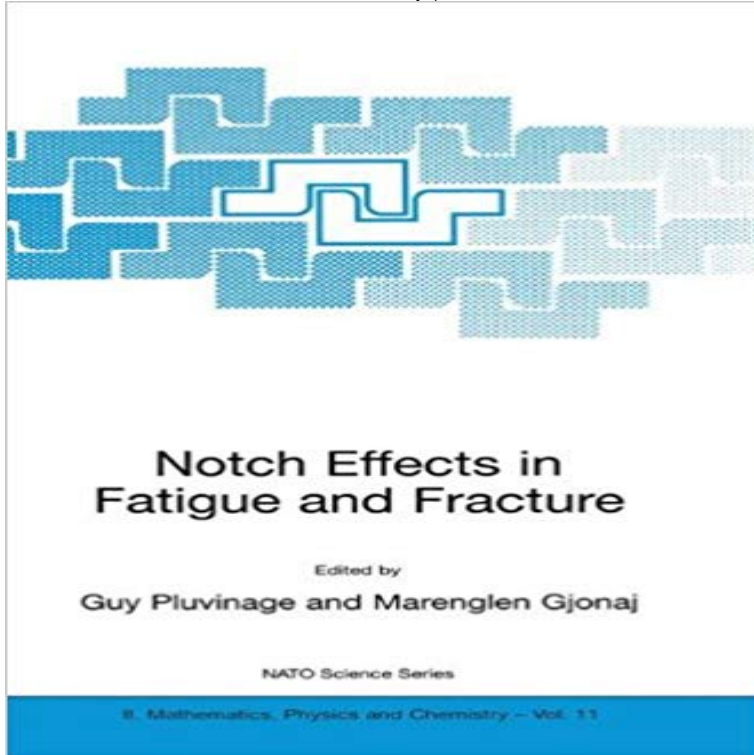


Notch Effects in Fatigue and Fracture (Nato Science Series II:)



As Directors of this NATO Workshop, we welcome this opportunity to record formally our thanks to the NATO Scientific Affairs Division for making our meeting possible through generous financial support and encouragement. This meeting has two purposes: the first obvious one because we have collected scientists from East, far East and west to discuss new development in the field of fracture mechanics: the notch fracture mechanics. The second is less obvious but perhaps in longer term more important that is the building of bridges between scientists in the frame of a network called Without Walls Institute on Notch Effects in Fatigue and Fracture. Physical perception of notch effects is not so easy to understand as the presence of a geometrical discontinuity as a worst effect than the simple reduction of cross section. Notch effects in fatigue and fracture is characterised by the following fundamental fact: it is not the maximum local stress or stress which governs the phenomena of fatigue and fracture. The physics shows that a process volume is needed probably to store the necessary energy for starting and propagating the phenomenon. This is a rupture of the traditional strength of material school which always give the prior importance of the local maximum stress. This concept of process volume was strongly affirmed during this workshop.

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notches, a strong commercial aluminium alloy exhibited limited brittle
Keywords: Transgranular brittle fracture Aluminium Anodise cracks Stress raisers. 1. [II, corrosion [21, or the presence of some detrimental trace element in the alloy [3]. .. cracking in alloys, Conference Proceedings (NATO Scientific Affairs Division, Ductile fracture results from the nucleation, growth and coalescence of cavities. Nucleation Part of the NATO Science Series book series (NAII, volume 32) Notch Effects In Fatigue And Fracture (Nato Science Series II:) The rise of the Internet and all technologies related to it have made it a lot easier to share various
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