

# Fatigue & Fracture of Engineering Materials & Structures

Editor-in-Chief: K. J. Miller

Associate Editors-in-Chief: Y. Hong, Y. Murakami & A. Saxena

Ref: D 2 PF 251199/03      Df: 2774518-  
FATIGUE & FRACTURE OF ENGINEERING MATERI  
01.08.00 Vol. 23 No. 8  
8756-758X      22101144      26.09.00  
LIBRIS - C2  
144 BOULEVARD KRIM BELKACEM  
ALGER  
ALGERIE

Published in co-operation with:  
American Society for Testing & Materials ASTM Committee E08 on Fatigue & Fracture  
& The European Structural Integrity Society

<http://www.blackwell-science.com/ffe/>

Blackwell  
Science

# Fatigue & Fracture of Engineering Materials & Structures

Volume 23 Number 8 August 2000

## Contents

- 637 *K. J. Miller*  
A SIRIUS Special Issue

### Original articles

- 639 *D. I. Fletcher and J. H. Beynon*  
The effect of contact load reduction on the fatigue life of pearlitic rail steel in lubricated rolling-sliding contact
- 651 *E. R. de los Rios, C. A. Rodopoulos and J. R. Yates*  
Notch sensitivity of Ti-based unidirectional metal matrix composites under tensile and fatigue loading
- 659 *S. L. Wong, P. E. Bold, M. W. Brown and R. J. Allen*  
Two measurement techniques for determining effective stress intensity factors
- 667 *S. L. Wong, P. E. Bold, M. W. Brown and R. J. Allen*  
Fatigue crack growth rates under sequential mixed-mode I and II loading cycles
- 675 *F. Aymerich and M. S. Found*  
Response of notched carbon/PEEK and carbon/epoxy laminates subjected to tension fatigue loading
- 685 *J. G. R. Kingston and R. J. Hand*  
Compositional effects on the fracture behaviour of alkali-silicate glasses
- 691 *M. C. Burstow and I. C. Howard*  
Damage mechanics models of ductile crack growth in welded specimens
- 709 *E. R. de los Rios, M. Trull and A. Levers*  
Modelling fatigue crack growth in shot-peened components of A1 2024-T351
- Technical note**
- 717 *F. Scarpa and P. J. Tomlin*  
On the transverse shear modulus of negative Poisson's ratio honeycomb structures
- 721 Information on conferences/seminars

**b**

Blackwell  
Science



8756-758X(200008)23:8;1-K

*Fatigue Fract. Engng Mater. Struct.* is indexed/abstracted in Appl. Mech. Rev.; Curr. Cont. ASCA; Camb. Sci. Abstr.; Curr. Cont./Engng Tech. Appl. Sci.; Engng Ind.; INSPEC Data.; Mater. Sci. Cit. Ind.; PASCAL-CNRS Data.; Curr. Cont. SCISEARCH Data and Referantivnyi Zhurnal Moscow.

Information on this journal can be accessed at  
<http://www.blackwell-science.com/ffe/>

Typeset, Printed and Bound by The Charlesworth Group,  
Huddersfield, UK