

050-620-19-1

ISSN 8756-758X

Fatigue & Fracture of Engineering Materials & Structures

Volume 27
Number 1
January 2004



Blackwell
Publishing

www.blackwellpublishing.com/ffe
**AVAILABLE
ONLINE**

Contents

Original Articles

- 1 *F. P. Brennan and L. S. Teb*
Determination of crack-tip stress intensity factors in complex geometries by the composition of constituent weight function solutions
- 9 *S.-W. Han, S.-W. Kim and S. Kumai*
Effects of solidification structure on tear resistance of Al-7% Si-0.4% Mg cast alloys
- 19 *L. G. Zhao, J. Tong and J. Byrne*
The evolution of the stress-strain fields near a fatigue crack tip and plasticity-induced crack closure revisited
- 31 *V. Calonne, A. F. Gourgues and A. Pineau*
Fatigue crack propagation in cast duplex stainless steels: thermal ageing and microstructural effects
- 45 *C. K. Chen*
Near-tip microcrack shielding in advanced ceramics
- 51 *L. Yu, P. K. Das and N. D. P. Barltrop*
A new look at the effect of bandwidth and non-normality on fatigue damage
- 59 *G. P. Potirniche, S. R. Daniewicz and J. C. Newman, Jr.*
Simulating small crack growth behaviour using crystal plasticity theory and finite element analysis

Fatigue & Fracture of Engineering Materials & Structures

Volume 27
Number 1
January 2004

Fatigue Fract. Engng Mater. Struct. is indexed/abstracted in Current Contents/Engineering Mechanical, Materials Science, Multidisciplinary; Engineering Index; ISI Alerting Services; Materials Science Citation Index; Science Citation Index Expanded; PASCAL-CNRS Data; Referativnyi Zhurnal Moscow; International Civil Engineering Abstracts; Compendex


Typeset by Techbooks, New Delhi, India.
Printed in Singapore.



8756-758X(200401)27:01;1-J



**Blackwell
Publishing**

**Blackwell
Synergy** 

www.blackwellpublishing.com/journals/ffe
This journal is available online at *Blackwell Synergy*.
Visit www.blackwell-synergy.com to search the articles
and register for table of contents e-mail alerts.