

STRENGTH, FRACTURE AND COMPLEXITY

Volume 7, Number 2, 2011

Abstracted/Index in: Academic Source Complete, Compendex, CSA Illumina, EBSCO database, Inspec IET, PASCAL, SciVerse Scopus, Ulrich's Periodicals Directory

Special Issue: International Conference on Fracture and Strength 2010 – From Physical to Holistic, Sendai International Center, Japan, 4–6 October 2010, Part 2

CONTENTS

D.M.R. Taplin and A. Saxena

- ICF: The World Academy of Structural Integrity – retrospective and prospective 109

K. Fujiyama, H. Kimachi, Y. Watanabe, K. Hijikuro and T. Tsuboi

- The concept of "EBSD strain analysis" and its application to creep and creep-fatigue damage assessment of ferritic and austenitic heat resistant steels 123

M. Tabuchi, A.T. Yokobori Jr., R. Sugiura, M. Yatomi and K. Kobayashi

- Evaluation of creep crack growth properties of Gr. 92 steel weldment 137

T. Kim, Y. Watanabe, S. Zhang and M. Sakane

- Multiaxial low cycle fatigue life of Mod.9Cr-1Mo steel circumferential notched specimen under nonproportional loading 147

D. Kobayashi, M. Miyabe, Y. Kagiya, Y. Nagumo, R. Sugiura, T. Matsuzaki and A.T. Yokobori Jr.

- Creep damage evaluation of IN738LC based on the EBSD method by using a notched specimen 157

H. Tohmyoh

- On melting phenomenon at nanocontacts of thin metallic wires in comparison with fracture mechanics 169

K. Ito, M. Watanabe, S. Kuroda and M. Enoki

- Evaluation of cracking due to dynamic temperature fluctuation during plasma spraying process by laser AE method 177

T. Fujii, K. Tohgo, Y. Wang, J. Shibata, Y. Shimamura, N. Katayama and Y. Ito

- Fatigue strength of a paper-based friction material under shear-compressive loading 185

S. Ono, M. Enoki, L. Shen, K. Sakurai, S. Ohnishi and M. Nakamura

- Fatigue behavior and coating failure of polymer coated drug eluting stent 195

T. Shiraiwa and M. Enoki

- Fatigue crack behavior of thin copper sheet and its application for smart stress-memory patch 205

A.T. Yokobori Jr., T. Ohmi, T. Murakawa, T. Nemoto, T. Uesugi and R. Sugiura

- The application of the analysis of potential driven particle diffusion to the strength of materials 215