



## Blog

A promotional access to the articles discussed in the blog (and listed below) is now activated up to 21.03.2017. Any contribution to the discussions is appreciated.

The blog is published on <http://imechanica.org/node/9794>.

Brittle crack propagation/arrest behaviour in steel plate – Part I: Model formulation” by Kazuki Shibamura, Fuminori Yanagimoto, Tetsuya Namegawa, Katsuyuki Suzuki, Shuji Aihara in Engineering Fracture Mechanics, 162 (2016) 324-340.

Fracture resistance enhancement of layered structures by multiple cracks, S. Goutianos and B.F. Sørensen, Engineering Fracture Mechanics, 151 (2016) 92-108.

Cohesive zone modeling and calibration for mode I tearing of large ductile plates, P.B. Woelke, M.D. Shields, J.W. Hutchinson, Engineering Fracture Mechanics, Vol 147 (2015) pp. 293-305.

Method for calculating  $G$ ,  $G_I$ , and  $G_{II}$  to simulate crack growth in 2D, multiple-material structures, E.K. Oneida, M.C.H. van der Meulen, A.R. Ingraffea, Engineering Fracture Mechanics, Vol 140 (2015) pp. 106-126.

A phase field method to simulate crack nucleation and propagation in strongly heterogeneous materials from direct imaging of their microstructure, T.T. Nguyen, J. Yvonnet, Q.-Z. Zhu, M. Bornert, C. Chateau, Engineering Fracture Mechanics, Vol 139 (2015) pp. 18-39.

Further study on crack growth model of buried pipelines exposed to concentrated carbonate-bicarbonate solution, B.T. Lu, Engineering Fracture Mechanics vol. 131 (2014) pp. 296-314.

Effect of a single soft interlayer on the crack driving force, M. Sistaninia and O. Kolednik, Engineering Fracture Mechanics, Vol. 130, 2014, pp. 21-41.

P.M. James: Re-derivation of plasticity interaction for combined loading under significant levels of elastic follow-up. Engineering Fracture Mechanics, Vol. 126, 2014, pp. 12-26.

K. Özenç, M. Kaliske, G. Lin, G. Bhashyam: Evaluation of energy contributions in elasto-plastic fracture: A review of the configurational force approach, Engineering Fracture Mechanics, 2014, Vol. 115, pp. 137-153.

T. Yasuoka, Y. Mizutani, A. Todoroki: Applicable limit of the stress intensity factor for steep yield strength distribution, Engineering Fracture Mechanics, 2013, Vol. 110, pp. 1-11.

Henrik Danielsson and Per Johan Gustafsson: A three dimensional plasticity model for perpendicular to grain cohesive fracture in wood, Engineering Fracture Mechanics Vol. 98 2013, pp.137-152.

P. Mäkelä and S. Östlund: Cohesive crack modelling of thin sheet material exhibiting anisotropy, plasticity and large-scale damage evolution. *Engineering Fracture Mechanics*, Vol. 79, 2012 pp. 50-60.

H. Krull and H. Yuan: Suggestions to the cohesive traction–separation law from atomistic simulations. *Engineering Fracture Mechanics*, Vol. 78, 2011, pp. 525-533.

J.C. Sobotka, R.H. Dodds: Steady crack growth in a thin, ductile plate under small-scale yielding conditions: Three-dimensional modelling., *Engineering Fracture Mechanics*, Vol. 78, 2011, pp. 343-363.

J.C. Sobotka, R.H. Dodds: T-stress effects on steady crack growth in a thin, ductile plate under small-scale yielding conditions: Three-dimensional modelling., *Engineering Fracture Mechanics*, Vol. 78, 2011, pp. 1182-1200.

Ehsan Barati, Younes Alizadeh, Jamshid Aghazadeh Mohandesi: J-integral evaluation of austenitic-martensitic functionally graded steel in plates weakened by U-notches, *Engineering Fracture Mechanics*, Vol. 77, Issue 16, 2010, pp. 3341-3358.

## ECF Events

August 26-31, 2018. 22nd European Conference of Fracture (ECF22), Belgrade, Serbia.

## ESIS TC Meetings & Activities

- September 10-14, 2017. TC4 meeting Fracture of Polymers, Composites and Adhesives. Les Diablerets, Switzerland. [LINK](#). Abstract submission: December 16, 2016.

## Other Events

- March 1-3, 2017. IGFXIV - 2nd International Edition. Urbino, Italy. [LINK](#). [FLYER](#). Abstract submission: January 20, 2017.

- March 29-31, 2017. XXXIV Meeting Spanish Group on Fracture and Structural Integrity. Santander, Cantabria. [LINK](#).

- June 18-23, 2017. ICF14-Fourteenth International Conference on Fracture, Rhodes, Greece. [LINK](#). [FLYER](#).

- June 27-29, 2017. Eighth International Conference on Low Cycle Fatigue (LCF8), Dresden, Germany. [LINK](#).

- July 3-5, 2017. Seventh International Conference on Very High Cycle Fatigue (VHCF7), Dresden, Germany. [LINK](#).

- July 3-5, 2017. Fatigue 2017, Cambridge. [LINK](#).

- August 14-18, 2017. International Conference on Structural Integrity and Durability 2017 (ICSID2017) and 4th ESIS Summer School. [LINK](#).

- September 4-7, 2017. 2nd International Conference on Structural Integrity (ICSI2017), Funchal, Madeira, Portugal. [LINK](#).

- September 19-22, 2017. Third International Symposium on Fatigue Design and Materials Defects, Lecco, Italy. [LINK](#).

- November 29-30, 2017. Fatigue Design 2017. Senlis, France. [LINK](#).

