

Publications de l'Axe 1- 2015

Naman Recho 2015

Livres

N.Recho, J.Bares, B.Richard « Méthode de calcul par éléments finis : Principe, matrices élémentaires, assemblage, Cours et exercices corrigés »
Editions : Ellipses, Collection Technosup (192 pages). ISBN :978-2-340-00400-9, Mars 2015.

Autres Chapitres de livres

T. Lassen, N. Recho "Risk Based Inspection Planning of Fatigue Cracks in Offshore Steel Structures"

Proc. ASME. 56499; Volume 3: Structures, Safety and Reliability. May 31, 2015.
ASME 2015 34th International Conference on Ocean, Offshore and Arctic Engineering
OMAE 2015-41165. St. John's, Newfoundland, Canada, May 31–June 5, 2015
ISBN: 978-0-7918-5649-9. doi: 10.1115/OMAE2015-41165

Reuves à comité de lecture et à diffusion internationale

C.Z. Cheng, W. Zhou, Z.R. Niu, N. Recho " Stress singularity analysis for orthotropic V-notches in the generalized plane strain state"

Revue: Fatigue and Fracture of Engineering Materials and Structures (FFEMS).
Volume 38, Issue 8, August 2015, Pages: 881–896,

C.Z. Cheng, S. Yao; Z. Han, N. Recho; Z.R. Niu "Evaluation of the singularity exponents and characteristic angular functions for piezoelectric V- notches under the plane and anti-plane deformation".

Revue:Theoretical and Applied Fracture Mechanics, Volume 76, April 2015, Pages 50-59

C.Z.Cheng, D.P. Wang, Z.R. Niu, N. Recho "Singularity analysis near the vertex of the V-notch in Reissner's plate by coupling the asymptotic expansion technique with the interpolate matrix method"

Revue: Fatigue and Fracture of Engineering Materials and Structures (FFEMS).
Volume 38, Issue 3, March 2015, Pages: 300–314

Colloques internationaux avec actes

S. El Kabir, R. Moutou Pitti, N. Recho, Y. Lapusta, F. Dubois "Numerical study of crack path stability by MMGC specimen using $M\theta$ integral" 5th International Conference on "Crack Paths" (CP 2015).
Ferrara, Italy, 16 - 18 September, 2015

C.Z. Cheng, N.Recho, Y. Zhang, Z.R. Niu

"Fracture Resistance of an Interface Crack Emanating from a Bi-material V-notch Tip" 6th International Conference on Fatigue of Composite, 25-27 March 2015, Paris.

T. Lassen, N. Recho "Risk Based Inspection Planning of Fatigue Cracks in Offshore Steel Structures"

34nd International Conference on Ocean Offshore and Arctic Engineering (OMAE 2015)

May 31 - June 06, 2015, Saint John, Canada

Proc. ASME. 56499; Volume 3: Structures, Safety and Reliability, May 31, 2015
OMAE 2015-41165. doi: 10.1115/OMAE2015-41165

Colloques nationaux

S. El Kabir, R. Moutou Pitti, N. Recho, Y. Lapusta, F. Dubois

" Etude paramétrique de la propagation de fissure en mode mixte : application au matériau bois » 4èmes journées du GDR 3544 « Sciences du bois » - Clermont-Ferrand, 4-6 novembre 2015

Julien Gardan entre 2015

Revue à comité de lecture et à diffusion internationale

J. Gardan, "Definition of users' requirements in the customized product design through a user-centered translation method" Revue : Int J Interact Des Manuf. (2015) 1–9. doi:10.1007/s12008-015-0275-2.

N. Gardan, A. Schneider, J. Gardan "Material and process characterization for coupling topological optimization to additive manufacturing" Revue : Computer-Aided Design and Applications. 0 (2015) 1–11. doi:10.1080/16864360.2015.1059192.

Ali Makké 2015

Revue à comité de lecture et à diffusion internationale:

S. Jabbari-Farouji, J. Rottler, O. Lame, A. Makke, M. Perez, And J.L. Barrat "Plastic Deformation Mechanisms of Semi-crystalline and Amorphous Polymers" ACS Macro Letters 4 (2), 147-150 (2015) DOI: 10.1021/mz500754b

S. Jabbari-Farouji, J. Rottler, O. Lame, A. Makke, M. Perez, And J.L. Barrat "Correlation of structure and mechanical response in solid-like polymers" Revue: Journal of Physics: Condensed Matter 27, no. 19 (2015): 194131.)

Colloques internationaux avec actes

D.C. Nguyen, A. Makke, G. Montay, "An improved pull-out test for fiber/matrix interface characterization in composite materials: Application on hemp fibers reinforced Poly-Polypropylene" 17th International Conference on Mechanics of Composite Materials (2015)

Joseph Marae Djouda 2015

Revue à comité de lecture et à diffusion internationale

T. Maurer, J. Marae-Djouda, U. Cataldi, A. Gontier, G. Montay, Y. Madi, B. Panicaud, D. Macias, P-M. Adam, G. Lévêque, T. Bürgi, R. Caputo "The beginnings of plasmomechanics: towards plasmonic strain sensors" Frontiers of Materials Science 9 (2), 170-177

R. Nicolas, G. Lévêque, J. Marae-Djouda, G. Montay, Y. Madi, J. Plain, Z. Herro, M. Kazan, P-M. Adam, T. Maurer "Plasmonic mode interferences and Fano resonances in Metal-Insulator-Metal nanostructured interface" Scientific reports 5

Colloques nationaux

J. Marae-Djouda, Y. Madi, F. Gaslain, J. Beal, B. Panicaud, D. Retraint, G. Montay, T. Maurer. « Mécanismes locaux de déformation de l'acier inoxydable austénitique 316L » 22ème congrès français de mécanique, 3 p.

Yazid Madi 2015

Revue à comité de lecture et à diffusion internationale

T. Maurer, J. Marae-Djouda, U. Cataldi, A. Gontier, G. Montay, Y. Madi, B. Panicaud, D. Macias, P-M. Adam, G. Lévêque, T. Bürgi, R. Caputo "The beginnings of plasmomechanics: towards plasmonic strain sensors" *Frontiers of Materials Science* 9 (2), 170-177

R. Nicolas, G. Lévêque, J. Marae-Djouda, G. Montay, Y. Madi, J. Plain, Z. Herro, M. Kazan, P-M. Adam, T. Maurer "Plasmonic mode interferences and Fano resonances in Metal-Insulator-Metal nanostructured interface" *Scientific reports* 5

Colloques nationaux

J. Marae-Djouda, Y. Madi, F. Gaslain, J. Beal, B. Panicaud, D. Retraint, G. Montay, T. Maurer.

« Mécanismes locaux de déformation de l'acier inoxydable austénitique 316L » 22ème congrès français de mécanique, 3 p.