

Prénom : Joseph

Nom : Moysan

Liste de Publications 2009-2013 :

- 12-P1 Influence of welding passes on grain orientation - The example of a multi-pass V-weld, Ye J., Moysan J., Song S.J., Kim H.J., Chassignole B, Gueudre C., Dupond O., INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING, Vol. 93-94 : 17-21, 2012
- 11-P5 B. CHASSIGNOLE, O. DUPOND, T. FOUQUET, A. LE BRUN, J. MOYSAN, P. BENOIST, Application of modelling for enhanced ultrasonic inspection of stainless steel welds, WELDING IN THE WORLD, 55-7-8, 75
- 11-P4 C. PAYAN, V. GARNIER. J. MOYSAN, Determination of nonlinear elastic constants and stress monitoring in concrete by coda waves analysis, EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, 15-4 : 519-531
- 11-P3 K. PAUMEL, J. MOYSAN, F. BAQUE, G. CORNELOUP, Modelling of ultrasound transmission through a solid-liquid interface comprising a network of gas pockets. Application to the ultrasonic inspection of sodium fast reactors, JOURNAL OF APPLIED PHYSICS, 110-4, 2011, 044910-1-9
- 11-P2 M. CAVARO, C. PAYAN, J. MOYSAN, F. BAQUE, Microbubble cloud characterisation by nonlinear frequency mixing, J. Acoust. Soc. Am. , 129-5, EL179-189
- 11-P1 M.A. PLOIX, V. GARNIER, D. BREYSSE, J. MOYSAN, NDE data fusion for improving evaluation of concrete structures, NDT&E International, 44-5, pp 442-448
- 10-P2 C. PAYAN, V. GARNIER et J. MOYSAN, Effect of water saturation on the nonlinear behaviour of concrete, Cement and Concrete Research,, 40:473-476
- 10-P1 C. PAYAN, V. GARNIER, J. MOYSAN, Potential of nonlinear ultrasonic indicators for NonDestructive Testing of concrete ,Advances in Civil Engineering 2010, 238472
- 09-P4 K. PAUMEL, J. MOYSAN, M.AUTRIC, C. GUEUDRE, G. CORNELOUP, F. BAQUE, Visualization of the ultrasound-induced behaviour of gas pockets entrapped on a patterned surface. Application to inspection of sodium-cooled fast reactors, Nuclear Engineering and Design, Vol.239, n°11, pp 2272-2278 , 2009
- 09-P3 M. RICHOUE, A. DUROCHER, M. MEDRANO, R. MARTINEZ-ONA, J. MOYSAN and B. RICCARDIE, Data merging of infrared and ultrasonic images for plasma facing components inspection. Fusion Engineering and Design, Vol. 84, pp 1593-1597, 2009
- 09-P2 C. PAYAN, V. GARNIER, J. MOYSAN and P.A. Johnson, Determination of third order elastic constants in a complex solid applying coda wave interferometry, Applied Physics Letters 94, 011904 (2009).
- 09-P1 C. GUEUDRE, L. LE MARREC, J. MOYSAN, N. CHASSIGNOLE, Direct model optimization for data inversion. Application to ultrasonic characterization of

heterogeneous welds, NDT&E International, 42, 1 (2009) 47-55

Liste de Communications 2009-201:

- 13-C3 S. Benjeddou, J. Moysan, N. Massacret, M.A. Ploix, J.P. Jeannot, Numerical simulation of the temperature measurement by ultrasonic method in an environment representative of the core of SFR, 21ème Congrès Français de Mécanique, Bordeaux, 26 au 30 août 2013
- 13-C3 A. Baudot, J. Moysan, C. Payan, N. Ylla, J. Galy, B. Verneret, A. Baillard, Towards evaluating variable adhesion on single lap shear joints using high-frequency ultrasonic analysis, 2nd International Conference on Structural Adhesive Bonding , Porto, Portugal, 4-5th July 2013.
- 13-C1 Validation of predicted path of thermally deflected ultrasonic waves, Nicolas Massacret, Joseph Moysan , Marie-Aude Ploix, Jean Philippe Jeannot, 13th NDCM, Le Mans, 20-25 mai 2013
- 12-C3 Massacret N., Moysan J., Ploix M. A., Jeannot J. P., Corneloup , Simplified modelling of liquid sodium medium with temperature and velocity gradient using real thermal-hydraulic data. Application to ultrasonic thermography in sodium fast reactor. G., Review of Progress in Quantitative NDE, Denver, 15-20th July 2012, VOLS 32A AND 32B Book Series: AIP Conference Proceedings under press
- 12-C2 M. Cavaro, C. Payan, S. Mensah, J. Moysan, and J.-P. Jeannot, Linear and nonlinear resonant acoustic spectroscopy of micro bubble clouds, 17th ICNEM, July 1-7th, Cefalu, Italy. POMA 16, 045003 (2012)
- 12-C1 Nicolas Massacret, Joseph Moysan , Marie-Aude Ploix, Jean Philippe Jeannot, Gilles Corneloup, Simplified modelling of liquid sodium medium with temperature gradient from thermohydraulic measurements to simulate wave propagation in liquid sodium. Application to ultrasonic thermometry in Sodium Fast Reactor, 7th GDRE Meeting, Oleron, May 2012, France
- 11-C2 J. Moysan, G. Corneloup, C. Gueudre, and M.-A. Ploix, Modeling Welded Material for Ultrasonic Testing Using MINA: Theory and Applications, Review of Progress in Quantitative NDE, University of Vermont, Burlington, Vermont, July 17 – 22, 2011
- 11-C1 C. La Rocca, J. Moysan, and C. Payan,, Characterization of an Epoxy Bonded Aluminium Alloy Sample Applying Dynamic Acousto-Elastic Testing, Review of Progress in Quantitative NDE, University of Vermont, Burlington, Vermont, July 17 – 22, 2011
- 10-C7 C. Gueudre, M. Checkroun, J. Moysan, G. Corneloup, Search of the Order of Passes of an Austenitic Weld by Optimization of an Inversion Process of Ultrasound Data, Review of Progress in Quantitative NDE, San

Diego, USA, July 18 – 23, 2010

- 10-C6 M.-A. Ploix, V. Garnier, J. Moysan, D. Breysse, NDT Data Fusion for Evaluating Concrete Structure, Review of Progress in Quantitative NDE, San Diego, USA, July 18 – 23, 2010
- 10-C5 M. Cavaro, J. Moysan, C. Payan, C. Gueudré, G. Corneloup and F. Baqué, Nonlinear Acoustic Characterization of Microbubbles Cloud , XV International Conference on Nonlinear Elasticity in Materials, OTRANTO (Italie), Juillet 2010
- 10-C4 A. Quiviger, J.-P. Zardan, C. Payan, V. Garnier, J. Moysan, J.-F. Chaix, J. Salin, Non destructive characterization of cracks in concrete by ultrasonic auscultation of civil engineering structures, Fontevraud 7, Int. Symposium, Avignon, 26-30 Septembre 2010
- 10-C3 A. Quiviger, J.P. Zardan, C. Payan, J.F. Chaix, V. Garnier, J. Moysan and J. Salin, Macro crack characterization by linear and nonlinear ultrasound in concrete, XV ICNEM Otranto, Italy, 4 - 10 July 2010, Proceedings of Meetings on Acoustics 10, 045003(2010)
- 10-C2 C. La Rocca, C. Payan and J. Moysan, Evaluation of epoxy bonded joint quality using nonlinear acoustics, XV ICNEM Otranto, Italy, 4 - 10 July 2010, Proceedings of Meetings on Acoustics 10, 045001 (2010)
- 10-C1 O Dupond, N Feuilly, B Chassignole, T Fouquet, J Moysan, G Corneloup, Relation between ultrasonic scattering and microstructure of polycrystalline materials, 18–22 January 2010, Castle Green Hotel, Lake District, UK , Journal of Physics: Conference Series, 2011, Vol. 269, 012010
- 09-C9 V. DORVAL, F. JENSON, G. CORNELOUP, J. MOYSAN , Accounting for Structural Noise and Attenuation in the Modeling of the Ultrasonic Testing of Polycrystalline Materials, Review of Progress in Quantitative NDE, University of Rhode Island – Kingston, Kingston, Rhode Island, July 26 – 31, 2009
- 09-C8 MOYSAN J., PLOIX M.A., CORNELOUP G & LE BRUN A., Analysis of a multiple-operators database for MAPOD study of ultrasonic pulse-echo response from Side-Drilled Holes, 4th European-American Workshop on Reliability of NDE, BAM Berlin, 24-26 Juin 2009
- 09-C7 F.Jenson, A. Rouhan, F. Foucher, H. Ammari, N. Dominguez, A. Le Brun, J. Moysan, The SISTAE Project: Simulation and Statistics for Non Destructive Evaluation, 4th European-American Workshop on Reliability of NDE, BAM Berlin, 24-26 Juin 2009
- 09-C6 PLOIX M.A., GARNIER V., BREYSSE D. & MOYSAN J., Possibilistic NDT data fusion for evaluating concrete structures, Non-Desctuctive Testing in Civil Engineering NDTCE'09, Nantes, 30 juin – 3 juillet 2009

- 09-C5 Cédric PAYAN, Vincent GARNIER, Joseph MOYSAN and Paul JOHNSON, Determination of nonlinear elastic constants and stress monitoring in concrete by coda waves analysis, NDTCE'09, Non-Destructive Testing in Civil Engineering, Nantes, France, June 30th – July 3rd, 2009
- 09-C4 Vincent GARNIER, Jean François CHAIX, Cédric PAYAN, Improvement of new wave propagation techniques to characterize concrete, NDTCE'09, Non-Destructive Testing in Civil Engineering, Nantes, France, June 30th – July 3rd, 2009
- 09-C3 M. CAVARO, J. MOYSAN, C. PAYAN, C. GUEUDRÉ, G. CORNELOUP, F.BAQUÉ, Towards nonlinear ultrasonic characterization of air microbubbles in water - POMA Volume 7, Issue 1, pp. 045005-045005-8 (October 20, 2009) , Congrès ICNEM, Lisbonne
- 09-C2 M.CAVARO, F.BAQUÉ, J.MOYSAN, C.GUEUDRÉ, G.CORNELOUP, C.PAYAN, J.SIBILO, G.PRELE, Towards Acoustic Characterization of the Gaseous Microbubbles Applied to Liquid Sodium, congrès ANIMMA, Marseille, 7-10 juin 2009
- 09-C1 Moysan J., Gueudré C., Ploix M-A., Corneloup G., Guy P., El Guerjouma R., Chassignole B., Advances in Ultrasonic Testing of Austenitic Stainless Steel Welds. Towards a 3D Description of the Material Including Attenuation and Optimisation by Inversion, Ultrasonic Wave Propagation in Non Homogeneous Media, Springer Proceedings in Physics, Ed. A. Leger, M. Deschamps, 128, (2009) 15-24

Liste d'ouvrages 2009-2013 :

Ouvrages collectifs post-congrès

J. MOYSAN, C. GUEUDRE, M.A. PLOIX, G. CORNELOUP, P. GUY, R. EL GUERJOUMA , B.CHASSIGNOLE, Advances in Ultrasonic Testing of Austenitic Stainless Steel Welds. Towards a 3D Description of the Material Including Attenuation and Optimisation by Inversion, in Ultrasonic Wave Propagation in Non Homogeneous Media, Editeurs A. Leger, M . Deschamps, dans Ultrasonic Wave Propagation in Non Homogeneous Media, Series: Springer Proceedings in Physics, Vol. 128, 2009, p 15-24

V. DORVAL, F. JENSON, G. CORNELOUP, J. MOYSAN, Simulation of structural noise and attenuation occurring in ultrasonic NDT of polycrystalline, in Ultrasonic Wave Propagation in Non Homogeneous Media, Editeurs A. Leger, M . Deschamps dans Ultrasonic Wave Propagation in Non Homogeneous Media, Series: Springer Proceedings in Physics, Vol. 128, 2009, p 365-374

Participations GDR :

GDRE européen GDRE – US, membre du comité scientifique

Collaborations (nationales et/ou internationales) avec d'autres laboratoires de Recherche :

Membre du comité de pilotage du Réseau MACS (Maîtrise des Assemblages Collés Structuraux) initié par le pôle de Compétitivité ASTECH (Paris)

Correspondant du thème CND dans l'accord de collaboration recherche CEA Cadarache-LMA

Autres participations projets collaboratifs : ANR : SENSO, EVADEOS, AAP ENDE, MOSAICS

Pilote du projet ANR Blanc 2012 ISABEAU (Innovating for Structural Adhesive Bonding Evaluation and Analysis with Ultrasounds)