



Professor Alain Combescure – INSA de Lyon, France

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Institut National des Sciences Appliquées (INSA), Lyon, France

Mécanique des Solides et des Endommagements (MSE) - Intégrité sous Sollicitations Extrêmes (ISE)

Domaines de Compétence :

Calcul Numérique, Développement de logiciel

Biomécanique, Dynamique, Endommagement & Rupture

Some Recent Publications:

A new assumed strain solid-shell formulation "SHB6" for the six-node prismatic finite element, Trinh V.-D., Abed-Meraim F., Combescure A., *Journal of Mechanical Science and Technology* 25, 9 (2011) 2345-2364

New prismatic solid-shell element: assumed strain formulation and hourglass mode analysis Abed-Meraim F., Combescure A., *Structural Engineering and Mechanics* 37, 2 (2011) 253-256

Extended Finite Element Method for Crack Propagation, Pommier S., Gravouil A., Moes N., Combescure A. (2011) 254

A monolithic energy conserving method to couple heterogeneous time integrators with incompatible time steps in structural dynamics, Mahjoubi N., Gravouil A., Combescure A., Greffet N., *Computer Methods in Applied Mechanics and Engineering* 200, janvier (2011) 1069-1086

Multigrid solver with automatic mesh refinement for transient elastoplastic dynamic problems, Biotteau E., Combescure A., Gravouil A., Lubrecht A., *International Journal for Numerical Methods in Engineering* 84, 8 (2010) 947–971

Three dimensional experimental and numerical multiscale analysis of a fatigue crack, Rannou J., Limodin N., Rethore J., Gravouil A., Ludwig W., Baietto-Dubourg M.-C., Buffiere J.-Y., Combescure A., Hild F., Roux S., *Computer Methods in Applied Mechanics and Engineering* 199 (2010) 1307-1325

Automatic refinement and efficient solver for non-linear dynamic structural problems, Biotteau E., Combescure A., Gravouil A., Lubrecht A., *European Journal of Computational Mechanics* 19, 1-2-3 (2010) 141–153

An improved assumed strain solid-shell element formulation with physical stabilization for geometric non-linear applications and elastic-plastic stability analysis, Abed-Meraim F., Combescure A., *International Journal for Numerical Methods in Engineering* 80, 13 (2009) 1640-1686

Coupling subdomains with heterogeneous time integrators and incompatible time steps, Mahjoubi N., Gravouil A., Combescure A., *Comput Mech* 44 (2009) 825-843

Explicit dynamics for the eXtended Finite Element Method, Menouillard T., Belytschko T., Combescure A. , *WCCM8 Eccomas 2008, Italie* (2008)

A general multistep method for a wide range of numerical schemes applied to transient non linear structural dynamics, Mahjoubi N., Combescure A., Gravouil A., *WCCM8 Eccomas 2008, Italie* (2008)

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