

Revue internationale à comité de lecture

- P7. Q.-T. Nguyen, J.-C. Thomas, A. Levan
Some new theoretical results on a pressurized orthotropic membrane tube
Soumis octobre 2013
- P6. Q.-T. Nguyen, J.-C. Thomas, A. Levan
An exact solution for an inflated orthotropic membrane tube made of an arbitrarily oriented fabric, *Engineering Structures*, Vol.56, pp 1080-1091, 2013
- P5. J.-C. Thomas, A. Levan
An exact solution for inflated orthotropic membrane tubes
Thin Walled Structures, Vol.67, pp.116,120, 2013
- P4. J.-C. Thomas, Z. Jiang, C. Wielgosz
Continuous and finite element methods for the vibrations of inflatable beams
International journal of space structures, vol 21, n°2, pp197-221, 2007
- P3. J.-C. Thomas, C. Wielgosz
Deflections of highly inflated fabric tubes
Thin-Walled Structures, Volume 42, Issue 7, Pages 1049-1066, 2004
- P2. C. Wielgosz, J. -C. Thomas
An inflatable fabric beam element
Communications in numerical methods in engineering, Vol 19, pp 307-312, 2003.
- P1. C. Wielgosz, J.-C. Thomas
Deflections of inflatable fabric panels at high pressure
Thin-Walled Structures, Volume 40, Issue 6, Pages 523-536, June 2002.

Conférences internationales avec comité de lecture

- C21. J.-C. Thomas, F. Schoefs, C. Caprani, B. Rocher
An application of reliability analysis to inflatable structures
Tensinet Symposium 2013, [RE]THINKING Lightweight Structures, May 2013, Mimar Sinan Fine-Art University, Istanbul, Turkey
- C20. Q. T. Nguyen, J.-C. Thomas A. Levan
An exact solution to calculate the length and radius of an orthotropic inflatable beam - a theoretical application to the determination of the material coefficients
Tensinet Symposium 2013, [RE]THINKING Lightweight Structures, May 2013, Mimar Sinan Fine-Art University, Istanbul, Turkey
- C19. Q. T. Nguyen, J.-C. Thomas A. Levan
Some new theoretical results for orthotropic inflatable beams
ESDA 2012, July 02-04, 2012, Nantes, France
- C18. F. Schoefs, J.-C. Thomas
Which specific challenges for a semi-probabilistic code format devoted to temporary inflatable structures?
International Forum on Engineering Decision Making, 6th IFED Forum, January 26-29, 2012, Lake Louise, Canada
- C17. J.-C. Thomas
Shear and bending stiffnesses of orthotropic inflatable tubes
Structural Membranes 2011, 05-07 october 2011, Barcelona, Spain

- C16. J.-C.Thomas, C.Wielgosz
On the use of a strength of material theory for bended inflatable cones
Structural Membranes 2009, 05-07 october 2009, Stuttgart, Germany
- C15. J.C. Thomas, M. Chevreuil, C. Wielgosz
Limit Analysis of Inflatable Beams
Proceedings of the Ninth International Conference on Computational Structures Technology, Civil-Comp Press, Stirlingshire, UK, Paper 268, 2008. doi:10.4203/ccp.88.268
- C14. C. Wielgosz, J.-C. Thomas, A. Le Van
Mechanics of Inflatable Fabric Beams International
Conference on Computational & Experimental Engineering and Sciences, Vol. 5, No. 2, pp. 93-98, 2008,doi:10.3970/icces.2008.005.093
- C13. Z.Jiang, J.-C.Thomas, C.Wielgosz
Dynamic analysis of inflatable beams
Structural Membranes 2007, 17-19 september 2007, Barcelona, Spain
- C12. C. Wielgosz, A. Le Van, J.-C. Thomas, P. Casari
Buckling and dynamics of inflatable beams
2nd International Conference on Textile Composites and Inflatable Structures, Stuttgart, Germany, October 2005
- C11. J. C. Thomas, Z. Jiang, C.Wielgosz
Some results on the dynamics of inflatable beams
12th International Conference on Composite Engineering, Tenerife, Spain, August 2005
- C10. J.-C Thomas, A. Levan, X. Aduriz, Z.Jiang
Dynamic behaviour of inflatable tubes
Composites in Construction 2005 – Third International Conference, Lyon, France, July 11 – 13, 2005
- C9. P. Casari, J.-C Thomas, C. Wielgosz
Inflatable torus structure - Testing and numerical modelling
Composites in Construction 2005 – Third International Conference, Lyon, France, July 11 – 13, 2005
- C8. J.-C Thomas, C. Wielgosz, A. Levan
Mechanics of inflatable fabric beams
Fourth International Conference on Thin-Walled Structures, Advances in Research, Design and Manufacturing Technology, Loughborough University, Leicestershire, 22-24 June, 2004.
- C7. C. Wielgosz, J.C. Thomas, A. Le van
Equilibrium finite elements for inflatable beams, 6th World Conference on Computational Mechanics WCCM, Beijing, China, September 2004
- C6. J.C. Thomas, C. Wielgosz
Analytical and numerical solutions for highly inflated fabric tubes
International Conference on Textile Composites and Inflatable Structures, Barcelona, Spain, july 2003
- C5. J.-C. Thomas, Y. Ravaut, C. Wielgosz, R. Bouzidi
Beam and Plain Strain Finite Elements for Inflatable Fabric Membranes in Two Dimensions
Proceedings of the Sixth International Conference on Computational Structures Technology, Civil-Comp Press, Stirlingshire, UK, Paper 87, 2002. doi:10.4203/ccp.75.87
- C4. C.Wielgosz, J.-C. Thomas, P. Casari
Strength of inflatable fabric beams at high pressure, 43rd AIAA/ ASME/ ASCE/ AHS Structures, S tructural Dynamics, and Materials Conference, paper 1292, Denver, USA, 22-26 April 2002
- C3. Wielgosz, J.-C. Thomas, P. Casari

Experimental study and modelling of highly inflated fabric beams
First European Workshop on Inflatable Space Structures, 21-22 May 2002, ESTEC, Noordwijk, The Netherlands

- C2. Wielgosz, E. Leflaive, J.-C. Thomas
Behaviour of inflated structures at medium pressures
Proceedings of the Third International Conference on Mobile and Rapidly Assembled Structures, MARAS 2000, pp 41-50, 21 – 23 June 2000, Madrid, Spain
- C1. C. Wielgosz, E. Leflaive, J.-F. Dube, J.-C. Thomas
Behaviour of inflated fabric beams at medium pressure
Proceedings of the Twelve International Conference on Composite Materials, ICCM 12, Paris, 1999.

Conférences nationales avec comité de lecture

- C3. Z. Jiang, J.-C. Thomas, C. Wielgosz,
Contribution a l'etude de la dynamique de poutres gonflables
8e Colloque National de Calcul des Structures, 21-25 Mai 2007, Giens (Var)
- C2. P. Casari, J. C. Thomas, C. Wielgosz
Corrélation essai – calcul sur tore gonflable sollicité hors plan,
17ème Congrès Français de Mécanique, Troyes, septembre 2005
- C1. J.-C. Thomas, C. Wielgosz, P. Casari
Comportement mécanique de poutres en tissu enduit gonflées à haute pression
Sixième Colloque National de Calcul des Structures, Mai 2003, Giens

Direction de thèses :

- *Nombre de thèses soutenues et nombre de thèses en cours :*
1 thèses soutenue et 2 thèses en cours
- *Liste des thèses soutenues (en précisant, le cas échéant, le taux de co-encadrement) :*
"Contribution à la dynamique de poutres gonflables "
Zhen JIANG, soutenue le 19 octobre 2007
- *Liste des thèses en cours (en précisant, le cas échéant, le taux de co-encadrement) :*
" Prise en compte de l'orthotropie dans le comportement de poutres gonflables"
Quang Tung NGUYEN

" Expérimentation et modélisation du comportement des structures gonflables complexes sous chargement climatique aléatoire"
Alexis BLOCH