

PUBLICATIONS

Authored books

None

Ten most important articles (contribution to multi-authored papers indicated in parentheses)

- Lewis, W.J., Gosling, P.D., (1993). Stable Minimal Surfaces in Form-Finding of Lightweight Tension Structures, J. Space Structures, v. 8, n. 3, 149-166.
- Gosling, P.D., Lewis, W.J., (1996a) Optimal Structural Membranes Part I: Formulation of a Curved Quadrilateral Element for Surface Definition, Computers and Structures, v.61, n.5, 871-883.
- Gosling, P.D., Lewis, W.J., (1996b). Optimal Structural Membranes Part II: Form-Finding of Prestressed Membranes Using a Curved Quadrilateral Finite Element for Surface Definition, Computers and Structures, v.61, n.5, 885-895.
- Gosling, P.D., Rousselet, B., (1996c). Geometrically Constrained Thickness Optimisation of Flexible Beams, Engineering Optimisation, v.26, 295-314.
- Gosling, P.D., (1998f). A Discrete Energy Formulation for the Definition of Optimal Tension Structures, Structural Optimization, v.16, 76-80.
- Wu, H.G., Gosling, P.D., (1999), An Economic Solution for Penstock Bifurcations, J. Hydropower & Dams, 6(2), 44-47.
- Wu, H.G., Gosling, P.D., (2000a), Structural Research on the penstocks for Three Gorges, J. Hydropower & Dams, 7(1), 64-68.
- Gosling, P.D., Korban, E.A., (2001a) A bendable finite element for the analysis of flexible cable structures, Finite Elements in Analysis and Design, 38
- Gosling, P.D., Rousselet, B., (1996d). Shape Design Sensitivities of Inextensible Elastic Beam Structures, Numerical Methods in Engineering '96, Paris, 218-224.
- Gosling, P.D., (1997a). Terms to Ensure the Adequate Strain-free Rigid-Body Motion of a Curved Membrane Finite Element, NAFEMS World Congress, Stuttgart, Germany, 9-11 April, 640-652.
- Gosling, P.D., (2001). 'Sensitivity strategies for the thickness optimisation of elastic inextensible beams', 3rd ASMO-UK/ISSMO Conference of Engineering Design Optimisation, Harrogate, UK, July 2001, 95-101, ISBN 0-85316-219-0

Other publications over the past 5 years

- Gosling, P.D., Rousselet, B., (1995). Thickness Optimisation of Geometrically Non-linear Beam Structures with Inextensibility, WCSMO-1, Goslar, Germany, 28 May - 2 June, 453-459.
- Gosling, P.D. (1996e), Mechanical Behaviour of a Moulded Connector for Pultruded Box Sections, Mat-tec 96, Paris, 25-27, 133-142.
- Gosling, P.D., (1997b). Equilibrium Configurations of Cablenet Structures Defined Using Energy Principles, WCSMO-2, Zakopane, Poland, 26-30 May, 923-929.
- Gosling, P.D., (1997c). Adequate Representation of Rigid Body Rotations in the Geometric Stiffness Matrix of a Curved Finite Element, IASSS Symposium, Singapore, 10-14 November, v1, 287-296.
- Gosling, P.D., Riches, C.G., (1997d). Some Results on the Numerical Representation of the Load-deflection Characteristics of Pneumatic Beams, IASSS Symposium, Singapore, 10-14 November, v1, 297-306.
- Gosling, P.D., (1997e). A Fundamental Energy Formulation for the Geometrically Non-linear Beam, SEAM 4, Accra, Ghana, 9-11 September, v2, 339-351.
- Javed, M.A., Gosling, P.D., (1998a). Parametric Study on the Global Buckling Behaviour of FRP Columns, 7th International Conference on Fibre Reinforced Composites, Newcastle, 15-17 April, 438-446.
- Saribiyik, M., Gosling, P.D., (1998b). Modelling of a Moulded FRP Connector for Pultruded Sections, 7th International Conference on Fibre Reinforced Composites, Newcastle, 15-17 April, 438-446.
- Riches, C.G., Gosling, P.D., (1998c). Numerical Analysis of the Load-Deflection Characteristics of Pneumatic Beam Structures, 1998 Symposium of the International Association for Shell and Spatial Structures (IASS), v.2, Sydney, Australia, 5-8 October, 874-882.
- Riches, C.G., Gosling, P.D., (1998d). Pneumatic Structures: A Review of Concepts, Applications and Analytical Methods, 1998 Symposium of the International Association for Shell and Spatial Structures (IASS), v.2, Sydney, Australia, 5-8 October, 883-894.

- Gosling, P.D., (1998e), A New Philosophy Applied to the Design of Pneumatic Aircraft Evacuation Slides and Slide-Rafts, Joint Aviation Authorities Conference on Very Large Transport Aeroplanes, Noordwijkerhout, Netherlands, 13-16 October, 35-41.
- Gosling, P.D., E.A., Korban, (2000b), Fundamentals of an elastic flexible cable finite element, IASS-IACM 2000, Fourth Int. Colloquium on Computation of Shell and Spatial Structures, Crete, 4-7 June, 12pp (CD-ROM).
- Gosling, P.D., Bettess, P., (2000c), EPITOMIZ – an introduction, 2nd ASMO UK / ISSMO Conference on Engineering Design Optimization, Swansea, 10-11 July, 95-100.
- Gosling, P.D., Liu, L., 'Large deformation/strain shape sensitivities for uni-axis bending', WCSMO-4, Dalian, China, June 2001.
- Gosling, P.D., Liu, L., 'Analytical thickness sensitivities for elasto-plastic bending', 3rd ASMO-UK/ISSMO Conference of Engineering Design Optimisation, Harrogate, UK, July 2001, 103-110, ISBN 0-85316-219.