

Thomas Gmür : List of publications

• Peer reviewed journal articles

- [1] Rodrigues, J., and Gmür, Th. (1989), The solution of large undamped gyroscopic eigensystems by a subspace iteration method, *Computers & Structures*, Vol. 32, No. 3-4, pp. 591-599.
- [2] Rodrigues, J., and Gmür, Th. (1989), A subspace iteration method for the eigensolution of large undamped gyroscopic systems, *International Journal for Numerical Methods in Engineering*, Vol. 28, No. 3, pp. 511-522.
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- [4] Gmür, Th., and Rodrigues, J. (1991), Shaft finite elements for rotor dynamics analysis, *ASME Transactions : Journal of Vibration and Acoustics*, Vol. 113, No. 4, pp. 482-493.
- [5] Gmür, Th., and Schorderet, A. (1993), A set of three-dimensional solid to shell transition elements for structural dynamics, *Computers & Structures*, Vol. 46, No. 4, pp. 583-591.
- [6] Gmür, Th., and Kauten, R. (1993), Three-dimensional solid-to-beam transition elements for structural dynamics analysis, *International Journal for Numerical Methods in Engineering*, Vol. 36, No. 9, pp. 1429-1444.
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- [11] Cugnoni, J., Gmür, Th., and Schorderet, A. (2004), Identification by modal analysis of composite structures modelled with FSDT and HSDT laminated shell finite elements, *Composites Part A: Applied Science and Manufacturing*, Vol. 35, No. 7-8, pp. 977-987.
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- [13] Cugnoni, J., Gmür, Th., and Schorderet, A. (2004), Modal validation of a set of C^0 compatible composite shell elements, *Composites Science and Technology*, Vol. 64, No. 13-14, pp. 2039-2050.
- [14] Sorensen, L., Gmür, Th., and Botsis, J. (2006), Residual strain development in an AS4/PPS thermoplastic composite measured using fibre Bragg grating sensors, *Composites Part A: Applied Science and Manufacturing*, Vol. 37, No. 2, pp. 270-281.
- [15] Prenleloup, A., Gmür, Th., Botsis, J., and Papailiou, K. O. (2006), Acoustic emission study and strength analysis of crimped steel-composite joints under traction, *Composite Structures*, Vol. 74, No. 3, pp. 370-378.

- [16] Mostafa, A. M., Gmür, Th., and Botsis, J. (2006), Effects of boundary conditions on the deformations of composite plates : experimental and numerical results, *Composites Science and Technology*, Vol. 66, No. 11-12, pp. 1756-1765.
- [17] Cugnoni, J., Gmür, Th., and Schorderet, A. (2007), Inverse method based on modal analysis for characterizing the constitutive properties of thick composite plates, *Computers & Structures*, Vol. 85, No. 17-18, pp. 1310-1320.
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- **Printed books**

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- [33] Del Pedro, M., and Gmür, Th. (2001), *Eléments de mécanique des structures*, Presses polytechniques et universitaires romandes, Lausanne, 272 p., ISBN 2-88074-487-3.
- [34] Del Pedro, M., Gmür, Th., and Botsis, J. (2004), *Introduction à la mécanique des solides et des structures*, Presses polytechniques et universitaires romandes, Lausanne, 324 p., ISBN 2-88074-617-5.
- [35] Gmür, Th. (2007), *Méthode des éléments finis en mécanique des structures*, Presses polytechniques et universitaires romandes, Lausanne, 264 p., ISBN 2-88074-461-X (first edition 2000).

- **Book chapters**

- [36] Kasas, S., Gmür, Th., and Dietler, G. (2008), *Finite element analysis of microscopic biological structures*, In : Ikai, A., *The World of Nano-Biomechanics – Mechanical Imaging and Measurement by Atomic Force Microscopy*, Chapter 12, Elsevier BV, Amsterdam, 286 p., ISBN 978-0-444-52777-6.
- [37] Kasas, S., Gmür, Th., und Dietler, G. (2010), *Finite-Elemente-Analyse von mikroskopischen biologischen Strukturen*. In : Ikai, A., *Einführung in die Nanobiomechanik – Bildgebung und Messung durch Rasterkraftmikroskopie*, Kapitel 12, Wiley-VCH Verlag GmbH & Co, KGaA, Weinheim, 246 p., ISBN 978-3-527-40954-9.

- **Conference book**

- [38] Botsis, J., Gmür, Th., and Cugnoni, J. (Editors) (2011), *Proceedings of the 5th International Conference on Composite Testing and Model Identification, Lausanne, Switzerland, February 14-16, 2011*, Ecole polytechnique fédérale de Lausanne, Lausanne, 192 p.

- **Peer-reviewed conference proceedings**

- [39] Rodrigues, J., and Gmür, Th. (1988), Résolution par une méthode d'itération sur sous-espace du problème aux valeurs propres associé aux systèmes gyroscopiques conservatifs, *Comptes rendus de la Journée suisse d'analyse numérique, Baden-Dättwil, 15 avril, 1988*, p. 4.
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- [64] Prenleloup, A., Gmür, Th., Botsis, J., Papailiou, K. O., Obrist, K., and Bonhôte, Ph. (2007), Acoustic emission inspection and analysis of crimped metal-composite joints subjected to bending, *Proceedings of the 4th International Conference on Non-Destructive Testing (Ed. I. N. Prassianakis), Chania (Crete), Greece, October 11-14, 2007, Hellenic Society of Non-Destructive Testing, Athens, Paper 5-2, 8 p.*
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