

LIST OF PUBLICATIONS OF MARCO AMABILI

Books

- 1) M. Amabili, 2018, *Nonlinear Mechanics of Shells and Plates: Composite, Soft and Biological Materials*, Cambridge University Press, New York, USA.
- 2) M. Amabili, 2008, *Nonlinear Vibrations and Stability of Shells and Plates*, Cambridge University Press, New York, USA.

Papers in Peer-Reviewed Journals

- 1) M. Amabili, P. Balasubramanian, G. Ferrari, G. Franchini, F. Giovanniello, E. Tubaldi, 2020, *Journal of the Mechanical Behaviour of Biomedical Materials*. Identification of viscoelastic properties of Dacron aortic grafts subjected to physiological pulsatile flow. doi: <https://doi.org/10.1016/j.jmbbm.2020.103804>
- 2) K. Khorshidi, M. Karimi, M. Amabili, 2020, *Acta Mechanica*, (accepted). Aeroelastic analysis of rectangular plates coupled to sloshing fluid.
- 3) M. Amabili, P. Balasubramanian, I. Bozzo, I.D. Breslavsky, G. Ferrari, G. Franchini, F. Giovanniello, C. Pogue, 2020, *Physical Review X*, vol. 10, 011015. Nonlinear dynamics of human aortas for material characterization. This paper was featured in the *Physics Magazine* of the American Physical Society (APS).
- 4) M. Amabili, J.N. Reddy, 2020, *Composite Structures*, vol. 244, 112265. The nonlinear, third-order thickness and shear deformation theory for statics and dynamics of laminated composite shells.
- 5) G. Ferrari, G. Franchini, L. Faedo, F. Giovanniello, S. Le Guisquet, P. Balasubramanian, K. Karazis, M. Amabili, 2020, *Nuclear Engineering and Design* 364, 110674. Nonlinear vibrations of a 3×3 reduced scale PWR fuel assembly supported by spacer grids.
- 6) M. Amabili, P. Balasubramanian, 2020, *Nonlinear Dynamics*, vol. 100, pp. 77-93. Nonlinear vibrations of truncated conical shells considering multiple internal resonances.
- 7) Yifan Lu, Qi Shao, Marco Amabili, Honghao Yue, Hongwei Guo, 2020, *International Journal of Non-linear Mechanics*, vol. 122, 103466. Nonlinear vibration control effects of membrane structures with in-plane PVDF actuators: a parametric study.
- 8) Y. Sun, D. Zhou, M. Amabili, J. Wang, H. Han, 2020, *International Journal of Structural Stability and Dynamics*, vol. 20, No. 3, 2050030. Liquid sloshing in a rigid cylindrical tank equipped with a rigid annular baffle and on soil foundation.
- 9) M. Gutierrez Rivera, J.N. Reddy, M. Amabili, 2020, *Mechanics of Advanced Materials and Structures*, vol. 27, pp. 551-560. A continuum eight-parameter shell finite element for large deformation analysis.
- 10) G. Ferrari, G. Franchini, P. Balasubramanian, F. Giovanniello, S. Le Guisquet, K. Karazis, M. Amabili, 2020, *Nuclear Engineering and Design*, vol. 361, 110503. Nonlinear vibrations of a nuclear fuel rod supported by spacer grids.
- 11) G. Ferrari, P. Balasubramanian, E. Tubaldi, F. Giovanniello, M. Amabili, 2019, *Journal of Biomechanics*, vol. 86, pp. 132-140. Experiments on dynamic behaviour of a Dacron aortic graft in a mock circulatory loop.
- 12) M. Amabili, 2019, *Nonlinear Dynamics*, vol. 97, pp. 1785-1797. Derivation of nonlinear damping from viscoelasticity in case of nonlinear vibrations.
- 13) Amit Yadav, Marco Amabili, Sarat Panda, Tanish Dey, 2019, *Composite Structures*, vol. 229, article 111430. Non-linear vibration response of functionally graded circular cylindrical shells subjected to thermo-mechanical loading.
- 14) Y. Lu, M. Amabili, J. Wang, F. Yang, H. Yue, Y. Xu, H.S. Tzou, 2019, *Journal of Vibration and Control*, vol. 25, pp. 2611–2626. Active vibration control of a polyvinylidene fluoride laminated membrane plate mirror.
- 15) M. Amabili, P. Balasubramanian, I. Breslavsky, 2019, *Journal of the Mechanical Behavior of Biomedical Materials*, vol. 99, pp. 186-197. Anisotropic fractional viscoelastic constitutive models for human descending thoracic aortas.
- 16) M. Amabili, P. Balasubramanian, I. Bozzo, I. Breslavsky, G. Ferrari, 2019, *Journal of the Mechanical Behavior of Biomedical Materials*, vol. 99, pp. 27-46. Layer-specific hyperelastic and viscoelastic characterization of human descending thoracic aortas.

- 17) M. Amabili, I.D. Breslavsky, J.N. Reddy, 2019, *Computer Methods in Applied Mechanics and Engineering*, vol. 346, pp. 841-861. Nonlinear higher-order shell theory for incompressible biological hyperelastic materials.
- 18) M. Amabili, 2018, *Journal of the Mechanics and Physics of Solids*, vol. 118, pp. 275-292. Nonlinear damping in nonlinear vibrations of rectangular plates: derivation from viscoelasticity and experimental validation.
- 19) G. Ferrari, P. Balasubramanian, S. Le Guisquet, L. Piccagli, K. Karazis, B. Painter, M. Amabili, 2018, *Nuclear Engineering and Design*, vol. 338, pp. 269-283. Non-linear vibrations of nuclear fuel rods.
- 20) I.D. Breslavsky, M. Amabili, 2018, *Biomechanics and Modeling in Mechanobiology*, vol. 17, 1839-1855. Nonlinear model of human descending thoracic aortic segments with residual stresses.
- 21) P. Balasubramanian, G. Ferrari, M. Amabili, 2018, *Mechanical Systems and Signal Processing*, vol. 111, pp. 376-398. Identification of the viscoelastic response and nonlinear damping of a rubber plate in nonlinear vibration regime.
- 22) I. Breslavsky, M. Amabili, 2018, *Nonlinear Dynamics*, vol. 93, pp. 53-62. Nonlinear vibrations of a circular cylindrical shell with multiple internal resonances under multi-harmonic excitation.
- 23) M. Amabili, 2018, *Nonlinear Dynamics*, vol. 93, pp. 5-18. Nonlinear damping in large-amplitude vibrations: modelling and experiments.
- 24) M. Amabili, P. Balasubramanian, I. Breslavsky, G. Ferrari, E. Tubaldi, 2018, *Journal of the Mechanical Behavior of Biomedical Materials*, vol. 82, pp. 282-290. Viscoelastic characterization of woven Dacron for aortic grafts by using direction-dependent quasi-linear viscoelasticity.
- 25) E. Tubaldi, M.P. Païdoussis, M. Amabili, 2018, *Journal of Biomechanical Engineering*, vol. 240, art. 061004 (12 pages). Nonlinear dynamics of Dacron aortic prostheses conveying pulsatile flow.
- 26) Y.-H. Wang, P. Song, X. Li, C. Ru, G. Ferrari, P. Balasubramanian, M. Amabili, Y. Sun, X. Liu, 2018, *Micromachines*, vol. 9, No. 1, art. 19. A paper-based piezoelectric accelerometer.
- 27) M. Amabili, 2018, *European Journal of Mechanics / A Solids*, vol. 68, pp. 75-87. Nonlinear vibrations and stability of laminated shells using a modified first-order shear deformation theory.
- 28) D. Davidovikj, F. Alijani, S.J. Cartamil-Bueno, H.S.J. van der Zant, M. Amabili, P.G. Steeneken, 2017, *Nature Communications*, vol. 8, art. 1253. Nonlinear dynamic characterization of two-dimensional materials. DOI: 10.1038/s41467-017-01351-4
- 29) E. Tubaldi, M. Amabili, M.P. Paidoussis, 2017, *Journal of Sound and Vibration*, vol. 396, pp. 217-245. Nonlinear dynamics of shells conveying pulsatile flow with pulse-wave propagation. Theory and numerical results for a single harmonic pulsation.
- 30) P. Balasubramanian, G. Ferrari, M. Amabili, Z.J.G.N. Del Prado, 2017, *International Journal of Non-linear Mechanics*, vol. 94, pp. 36-45. Experimental and theoretical study on large amplitude vibrations of clamped rubber plates.
- 31) S. Missoum, S. Lacaze, M. Amabili, F. Alijani, 2017, *Composite Structures*, vol. 179, pp. 695-704. Identification of material properties of composite sandwich panels under geometric uncertainty.
- 32) M. Amabili, P. Balasubramanian, I.D. Breslavsky, G. Ferrari, R. Garziera, K. Riabova, 2016, *Journal of Sound and Vibration*, vol. 385, pp. 81-92. Experimental and numerical study on vibrations and static deflection of a thin hyperelastic plate.
- 33) I.D. Breslavsky, M. Amabili, M. Legrand, 2016, *Journal of Applied Mechanics*, vol. 83, pp. 051002-1 to 051002-9. Static and dynamic behavior of circular cylindrical shell made of hyperelastic arterial material.
- 34) M. Amabili, P. Balasubramanian, G. Ferrari, 2016, *Journal of Sound and Vibration*, vol. 381, pp. 220-245. Travelling wave and non-stationary response in nonlinear vibrations of water-filled circular cylindrical shells: experiments and simulations.
- 35) M.E. Gutiérrez Rivera, J.N. Reddy, M. Amabili, 2016, *Composite Structures*, vol. 151, pp. 183-196. A new twelve-parameter spectral/hp shell finite element for large deformation analysis of composite shells.
- 36) E. Tubaldi, M. Amabili, M.P. Païdoussis, 2016, *Journal of Sound and Vibration*, vol. 371, pp. 252-276. Fluid-structure interaction for nonlinear response of shells conveying pulsatile flow.
- 37) F. Alijani, M. Amabili, P. Balasubramanian, S. Carra, G. Ferrari, R. Garziera, 2016, *International Journal of Non-linear Mechanics*, vol. 85, pp. 23-40. Damping for large-amplitude vibrations of plates and curved panels, part 1: modelling and experiments.
- 38) M. Amabili, F. Alijani, J. Delannoy, 2016, *International Journal of Non-linear Mechanics*, vol. 85, pp. 226-240. Damping for large-amplitude vibrations of plates and curved panels, part 2: identification and comparison.

- 39) M. Amabili, 2016, *Journal of Sound and Vibration*, vol. 362, pp. 142-156. Nonlinear vibrations of viscoelastic rectangular plates.
- 40) I.D. Breslavsky, M. Amabili, M. Legrand, F. Alijani, 2016, *International Journal of Non-linear Mechanics*, vol. 84, pp. 39-45. Axisymmetric deformations of circular rings made of linear and Neo-Hookean materials under internal and external pressure: a benchmark for Finite Element codes.
- 41) M.H. Ghayesh, M. Amabili, 2015, *Journal of Vibration and Control*, vol. 21, pp. 2891-2994. Nonlinear stability and bifurcations of an axially moving beam in thermal environment.
- 42) M. Kheiri, M.P. Païdoussis, M. Amabili, 2015, *Journal of Sound and Vibration*, vol. 348, pp. 149-166. An experimental study of dynamics of towed flexible cylinders.
- 43) M.H. Ghayesh, M. Amabili, H. Farokhi, 2015, *Journal of Vibration and Control*, vol. 21, pp. 195-208. Global dynamics of an axially moving buckled beam.
- 44) G. Ferrari, M. Amabili, 2015, *Journal of Sound and Vibration*, vol. 342, pp. 44-56. Active vibration control of a sandwich plate by non-collocated positive position feedback.
- 45) E. Tubaldi, M. Amabili, F. Alijani, 2015, *Journal of Fluids and Structures*, vol. 56, pp. 33-55. Nonlinear vibrations of plates in axial pulsating flow.
- 46) M. Amabili, 2015, *International Journal of Non-linear Mechanics*, vol. 69, pp. 109-128. Non-linearities in rotation and thickness deformation in a new third-order thickness deformation theory for static and dynamic analysis of isotropic and laminated doubly curved shells.
- 47) M. Amabili, 2015, *Composite Structures*, vol. 128, pp. 260-273. A new third-order shear deformation theory with non-linearities in shear for static and dynamic analysis of laminated doubly curved shells.
- 48) M. Amabili, I.D. Breslavsky, 2015, *International Journal of Non-linear Mechanics*, vol. 77, pp. 265-273. Displacement dependent pressure load for finite deflection of doubly-curved thick shells and plates.
- 49) A. Zippo, G. Ferrari, M. Amabili, M. Barbieri, F. Pellicano, 2015, *Composite Structures*, vol. 128, pp. 100-114. Active vibration control of a composite sandwich plate.
- 50) F. Daneshmand, H. Farokhi, M. Amabili, 2014, *Mathematical Biosciences*, vol. 252, pp. 67-82. A higher-order mathematical modeling for dynamic behavior of protein microtubule shell structures including shear deformation and small-scale effects.
- 51) R.D. Firouz-Abadi, M. Rahmanian, M. Amabili, 2014, *Journal of Vibration and Acoustics*, vol. 136, No. 5, art. 051001 (8 pages). Free vibration of moderately thick conical shells using a higher order shear deformable theory.
- 52) I.D. Breslavsky, M. Amabili, M. Legrand, 2014, *Journal of Sound and Vibration*, vol. 333, pp. 4668-4681. Nonlinear vibrations of thin hyperelastic plates.
- 53) M. Amabili, 2014, *Journal of Sound and Vibration*, vol. 333, pp. 1851-1852. Discussion on "Nonlinear vibration of functionally graded circular cylindrical shells based on improved Donnell equations" by D.H. Bich and N. Xuan Nguyen, *Journal of Sound and Vibration* 331 (25) (2012) 5488-5501.
- 54) M. Kheiri, M.P. Païdoussis, G.C. Del Pozo, M. Amabili, 2014, *Journal of Fluids and Structures*, vol. 49, pp. 360-385. Dynamics of a pipe conveying fluid flexibly restrained at the ends.
- 55) F. Alijani, M. Amabili, 2014, *International Journal of Non-linear Mechanics*, vol. 67, pp. 394-404. Non-linear static bending and forced vibrations of rectangular plates retaining non-linearities in rotations and thickness deformation.
- 56) E. Tubaldi, F. Alijani, M. Amabili, 2014, *International Journal of Non-linear Mechanics*, vol. 66, pp. 54-65. Nonlinear vibrations and stability of a periodically supported rectangular plate in axial flow.
- 57) I.D. Breslavsky, M. Amabili, M. Legrand, 2014, *International Journal of Non-linear Mechanics*, vol. 58, pp. 30-40. Physically and geometrically non-linear vibrations of thin rectangular plates.
- 58) M. Amabili, 2014, *International Journal of Non-linear Mechanics*, vol. 58, pp. 57-75. A non-linear higher-order thickness stretching and shear deformation theory for large-amplitude vibrations of laminated doubly curved shells.
- 59) F. Alijani, M. Amabili, 2014, *International Journal of Non-linear Mechanics*, vol. 58, pp. 233-257. Non-linear vibrations of shells: A literature review from 2003 to 2013.
- 60) F. Alijani, M. Amabili, 2014, *Composite Structures*, vol. 113, pp. 89-107. Effect of thickness deformation on large-amplitude vibrations of functionally graded rectangular plates.
- 61) F. Alijani, M. Amabili, 2014, *Composite Structures*, vol. 108, pp. 951-962. Nonlinear vibrations and multiple resonances of fluid filled arbitrary laminated circular cylindrical shells.
- 62) M.H. Gayesh, M. Amabili, 2014, *Composites Part B: Engineering*, vol. 60, pp. 371-377. Coupled longitudinal-transverse behaviour of a geometrically imperfect microbeam.
- 63) M.H. Gayesh, H. Farokhi, M. Amabili, 2014, *Composites Part B: Engineering*, vol. 60, pp. 423-439. In-plane and out-of-plane motion characteristics of microbeams with modal interactions.

- 64) S. Kazemirad, M.H. Ghayesh, M. Amabili, 2013, *Shock and Vibration*, vol. 20, pp. 385-399 (DOI: 10.3233/SAV-120752). Thermal effects on nonlinear vibrations of an axially moving beam with an intermediate spring-mass support.
- 65) M. Amabili, 2013, *Philosophical Transactions of the Royal Society A*, Vol. 371, No. 1993, article 20120474 (17 pages). Reduced-order models for nonlinear vibrations, based on natural modes: the case of the circular cylindrical shell.
- 66) M. Kheiri, M.P. Païdoussis, M. Amabili, B.I. Epureanu, 2013, *Ocean Engineering*, Vol. 64, pp. 161-173. Three-dimensional dynamics of long pipes towed underwater. Part 2: Linear dynamics.
- 67) M. Kheiri, M.P. Païdoussis, M. Amabili, B.I. Epureanu, 2013, *Ocean Engineering*, Vol. 64, pp. 153-160. Three-dimensional dynamics of long pipes towed underwater. Part 1: The equations of motion.
- 68) M.H. Ghayesh, M. Amabili, 2013, *Nonlinear Dynamics*, Vol. 73, pp. 39-52. Nonlinear dynamics of an axially moving Timoshenko beam with an internal resonance.
- 69) M.H. Ghayesh, M. Amabili, 2013, *Mechanism and Machine Theory*, Vol. 67, pp. 1-16. Nonlinear vibrations and stability of an axially moving Timoshenko beam with an intermediate spring support.
- 70) M.H. Ghayesh, M. Amabili, 2013, *Mechanics Based Design of Structures and Machines*, Vol. 41, pp. 359-381. Parametric stability and bifurcations of axially moving viscoelastic beams with time-dependent axial speed.
- 71) R.D. Firouz-Abadi, M. Rahmanian, M. Amabili, 2013, *Journal of Vibration and Acoustics*, vol. 135, art. 051017 (10 pages). Exact solutions for free vibrations and buckling of double tapered columns with elastic foundation and tip mass.
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- 73) F. Alijani, M. Amabili, 2013, *Journal of Sound and Vibration*, Vol. 332, pp. 3564-3588. Theory and experiments for nonlinear vibrations of imperfect rectangular plates with free edges.
- 74) E. Askari, K.-H. Jeong, M. Amabili, 2013, *Journal of Sound and Vibration*, Vol. 332, pp. 3064-3085. Hydroelastic vibration of circular plates immersed in a liquid-filled container with free surface.
- 75) M. Kheiri, M.P. Païdoussis, M. Amabili, 2013, *Journal of Sound and Vibration*, Vol. 332, pp. 1789-1806. A nonlinear model for a towed flexible cylinder.
- 76) M.H. Ghayesh, M.P. Païdoussis, M. Amabili, 2013, *Journal of Sound and Vibration*, Vol. 332, No. 24, pp. 6405-6418. Nonlinear dynamics of cantilevered extensible pipes conveying fluid.
- 77) S. Carra, M. Amabili, R. Garziera, 2013, *Journal of Fluids and Structures*, vol. 42, pp. 88-111. Experimental study of large amplitude vibrations of a thin plate in contact with sloshing liquids.
- 78) E. Tubaldi, M. Amabili, 2013, *Journal of Fluids and Structures*, Vol. 39, pp. 391-407. Vibrations and stability of periodically supported rectangular plate immersed in axial flow.
- 79) M.H. Ghayesh, M. Amabili, 2013, *International Journal of Non-linear Mechanics*, Vol. 57, pp. 16-30. Non-linear global dynamics of an axially moving plate.
- 80) M.H. Ghayesh, M. Amabili, H. Farokhi, 2013, *International Journal of Non-linear Mechanics*, Vol. 51, pp. 54-74. Coupled global dynamics of an axially moving viscoelastic beam.
- 81) F. Alijani, M. Amabili, 2013, *International Journal of Non-linear Mechanics*, Vol. 50, pp. 109-126. Nonlinear dynamic instability of functionally graded plates in thermal environments.
- 82) M.H. Ghayesh, M. Amabili, 2013, *International Journal of Non-linear Mechanics*, Vol. 49, pp. 40-49. Steady-state transverse response of an axially moving beam with time-dependent axial speed.
- 83) M.H. Ghayesh, M. Amabili, 2013, *International Journal of Mechanical Sciences*, Vol. 68, pp. 76-91. Post-buckling bifurcations and stability of high-speed axially moving beams.
- 84) M.H. Ghayesh, M. Amabili, H. Farokhi, 2013, *International Journal of Engineering Science*, vol. 71, pp. 1-14. Three-dimensional nonlinear size-dependent behaviour of Timoshenko microbeams.
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- 86) H. Farokhi, M.H. Ghayesh, M. Amabili, 2013, *International Journal of Engineering Science*, vol. 68, pp. 11-23. Nonlinear dynamics of a geometrically imperfect microbeam based on the modified couple stress theory.
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- 88) M.H. Ghayesh, H. Farokhi, M. Amabili, 2013, *Composites Part B: Engineering*, Vol. 50, pp. 318-324. Nonlinear dynamics of a microscale beam based on the modified couple stress theory.
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- 90) F. Alijani, M. Amabili, G. Ferrari, V. D'Alessandro, 2013, *Composite Structures*, Vol. 105, pp. 437-445. Non-linear vibrations of laminated and sandwich rectangular plates with free edges, Part II: Experiments & comparisons.
- 91) F. Alijani, M. Amabili, 2013, *Composite Structures*, Vol. 105, pp. 422-436. Non-linear vibrations of laminated and sandwich rectangular plates with free edges, Part I: Theory & numerical simulations.
- 92) H. Farokhi, M.H. Ghayesh, M. Amabili, 2013, *Chaos, Solitons & Fractals*, Vol. 54, pp. 101-121. In-plane and out-of-plane nonlinear dynamics of an axially moving beam.
- 93) M.H. Ghayesh, M. Amabili, H. Farokhi, 2013, *Chaos, Solitons & Fractals*, Vol. 52, pp. 8-29. Two-dimensional nonlinear dynamics of an axially moving viscoelastic beam with time-dependent axial speed.
- 94) M. Amabili 2013 *Journal of Sound and Vibration*, Vol. 332, pp. 4620-4640. A new nonlinear higher-order shear deformation theory with thickness variation for large-amplitude vibrations of laminated doubly curved shells.
- 95) M.H. Ghayesh, M. Amabili, 2013, *Archive of Applied Mechanics*, Vol. 83, pp. 591-604. Three-dimensional nonlinear planar dynamics of an axially moving Timoshenko beam.
- 96) S. Kazemirad, M.H. Ghayesh, M. Amabili, 2013, *Archive of Applied Mechanics*, vol. 83, pp. 25-42. Thermo-mechanical nonlinear dynamics of a buckled axially moving beam.
- 97) M.H. Ghayesh, H. Farokhi, M. Amabili, 2013, *Applied Physics A: Material Science and Processing*, Vol. 112, pp. 329-338. Coupled nonlinear size-dependant behaviour of microbeams.
- 98) H. Farokhi, M.H. Ghayesh, M. Amabili, 2013, *Applied Physics A: Material Science and Processing*, Vol. 113, pp. 297-307. Nonlinear resonant behavior of microbeams over the buckled state.
- 99) F. Alijani, M. Amabili, 2012, Vol. 12, No. 6, art. 1250047, DOI: 10.1142/S0219455412500472 (23 pages), *International Journal of Structural Stability and Dynamics*. Chaotic vibrations in functionally graded doubly curved shells with internal resonance.
- 100) M.H. Ghayesh, M.P. Païdoussis, M. Amabili, 2012, *Thin-Walled Structures*, Vol. 60, pp. 185-193. Subcritical parametric response of an axially accelerating beam.
- 101) M.H. Ghayesh, M. Amabili, M.P. Païdoussis, 2012, *Nonlinear Dynamics*, Vol. 70, pp. 335-354. Nonlinear vibrations and stability of an axially moving beam with an intermediate spring support: two-dimensional analysis.
- 102) M. Amabili, 2012, *Nonlinear Dynamics*, Vol. 69, pp. 755-770. Internal resonances in non-linear vibrations of a laminated circular cylindrical shell.
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- 114) F. Alijani, F. Bakhtiari-Nejad, M. Amabili, 2011, *Nonlinear Dynamics*, Vol. 66, No. 3, pp. 251-270. Nonlinear vibrations of FGM rectangular plates in thermal environments.

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- 119) M. Amabili, K. Karazis, K. Khorshidi, 2011, *International Journal of Structural Stability and Dynamics*, Vol. 11, No. 4, pp. 673-695. Nonlinear vibrations of rectangular laminated composite plates with different boundary conditions.
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- 251) I.D. Breslavsky, M. Amabili, 2018, 13th World Congress on Computational Mechanics (WCCM XIII), July 22-27, 2018, New York, NY, USA. Dynamics of human thoracic aorta under pulsatile blood pressure.
- 252) B. Painter, M. Amabili, S. Le Guisquet, P. Balasubramanian, K. Karazis, 2018, 13th World Congress on Computational Mechanics (WCCM XIII), July 22-27, 2018, New York, NY, USA. Identification of nonlinear parameters of a nuclear fuel rod.
- 253) M. Amabili, I. Breslavsky, G. Ferrari, P. Balasubramanian, G. Arena, R. Mongrain, E. Tubaldi, 2018, 8th World Congress of Biomechanics, 8-12 July, Dublin, Ireland. Comparison of experimental and numerical results for dynamics of human thoracic descending aortas (paper #O1973).
- 254) I. Breslavsky, M. Amabili, 2018, 8th World Congress of Biomechanics, 8-12 July, Dublin, Ireland. Static and dynamic analysis of human thoracic aortic segments (paper #O0242).
- 255) M. Amabili, I. Breslavsky, P. Balasubramanian, G. Ferrari, E. Tubaldi, 2018, 8th World Congress of Biomechanics, 8-12 July, Dublin, Ireland. Viscoelastic characterization of woven Dacron with direction-dependent quasi-linear viscoelasticity (paper #P3589).
- 256) E. Tubaldi, G. Ferrari, P. Balasubramanian, M.P. Paidoussis, M. Amabili, 2018, 8th World Congress of Biomechanics, 8-12 July, Dublin, Ireland. The nonlinear dynamics of woven Dacron aortic prostheses conveying pulsatile blood flow (paper #P4525).
- 257) M. Amabili, 2017, *Proceedings of the 14th International Conference Dynamical Systems – Theory and Applications* (DSTA2017), December 11-14, Lodz, Poland. Nonlinear damping: modelling and experiments. (Invited plenary lecture).
- 258) I.D. Breslavsky, M. Amabili, 2017, *Proceedings of the ASME Summer Biomechanics, Bioengineering and Biotransport Conference*, 21-24 June, Tucson, AZ, USA, paper SB³C2017-P225. Statics and dynamics of aortic segment with residual stresses.
- 259) E. Tubaldi, M. Amabili, M.P. Paidoussis, 2017, *Proceedings of the ASME Summer Biomechanics, Bioengineering and Biotransport Conference*, 21-24 June, Tucson, AZ, USA, paper SB³C2017-P232. Nonlinear dynamics of Dacron aortic prostheses conveying pulsatile flow.
- 260) E. Tubaldi, M.P. Paidoussis, M. Amabili, 2017, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2017-71514), November 3-9, 2017, Tampa, USA. Nonlinear vibrations of woven Dacron aortic prostheses conveying pulsatile flow.
- 261) P. Balasubramanian, G. Ferrari, M. Amabili, 2017, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2017-70773), November 3-9, 2017, Tampa, USA. A tool to identify damping during large amplitude vibrations of viscoelastic structures.
- 262) G. Ferrari, S. Le Guisquet, P. Balasubramanian, M. Amabili, B. Painter, K. Karazis, 2017, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2017-71418), November 3-9, 2017, Tampa, USA. Identification of non-linear parameters of a nuclear fuel rod.

- 263) M. Amabili, P. Balasubramanian, G. Ferrari, E. Tubaldi, 2017, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2017-70781), November 3-9, 2017, Tampa, USA. Experimental investigation on the dynamic behaviour of a Dacron graft used for the treatment of descending thoracic aortic aneurism.
- 264) I.D. Breslavskyi, M. Amabili, E. Tubaldi, A. Ruimi, 2017, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2017-72451), November 3-9, 2017, Tampa, USA. Statics and dynamics of an aortic segment considering residual stresses
- 265) M. Amabili, I.D. Breslavsky, 2017, *Proceedings of the 9th European Nonlinear Dynamics Conference (ENOC 2017)*, 25-30 June, Budapest, Hungary, paper ID 418. Dynamics of statically pre-loaded human aorta with residual stresses.
- 266) M. Amabili, 2017, *Proceedings of the 9th European Nonlinear Dynamics Conference (ENOC 2017)*, 25-30 June, Budapest, Hungary, paper ID 417. Identification of nonlinear damping for large-amplitude vibrations of plates and shells.
- 267) F. Alijani, D. Davidovikj, M. Amabili, P.G. Steeneken, 2017, *Proceedings of the 9th European Nonlinear Dynamics Conference (ENOC 2017)*, 25-30 June, Budapest, Hungary, paper ID 172. Non-linear dynamics for contactless characterization of graphene.
- 268) E. Tubaldi, M. Amabili, M.P. Paidoussis, 2017, *Proceedings of the 14th US National Congress on Computational Mechanics*, 17-20 July, Montreal, Canada. Fluid-Structure Interaction of Dacron Aortic Prostheses Conveying Pulsatile Flow.
- 269) Z.J.G.N. del Prado, M. Amabili, P.B. Gonçalves, 2017, *10th International Conference on Structural Dynamics (Eurodyn)*, September, Roma, Italy, published in *Procedia Engineering*, vol. 199, pp. 570-576. Non linear vibrations of imperfect fluid-filled viscoelastic cylindrical shells.
- 270) Z.J.G.N. del Prado, M. Amabili, P.B. Gonçalves, F. Da Silva, 2016, XXXVII Ibero-Latin American Congress on Computational Methods in Engineering (CILAMCE 2016), 6-9 November, Brasília, Brazil. Nonlinear vibrations of fluid-filled viscoelastic cylindrical shells.
- 271) M. Amabili, F. Alijani, G. Ferrari, J. Delannoy, P. Balasubramanian, 2016, XXIV International Congress of Theoretical and Applied Mechanics (XXIV ICTAM), 21-26 August 2016, Montreal, Canada. Nonlinear identification of damping in large amplitude vibrations of plates and shells.
- 272) E. Tubaldi, M. Amabili, M.P. Paidoussis, 2016, XXIV International Congress of Theoretical and Applied Mechanics (XXIV ICTAM), 21-26 August 2016, Montreal, Canada. Nonlinear response of shells conveying pulsatile flow.
- 273) I.D. Breslavsky, M. Amabili, M. Legrand, A. Ruimi, 2016, XXIV International Congress of Theoretical and Applied Mechanics (XXIV ICTAM), 21-26 August 2016, Montreal, Canada. Dynamics of statically pre-loaded human aorta.
- 274) J. Delannoy, M. Amabili, B. Painter, B. Matthews, K. Karazis, 2016, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2016-66311), November 11-17, 2016, Phoenix, USA. Identification of nonlinear damping of nuclear reactor components in case of one-to-one internal resonance.
- 275) M. Amabili, P. Balasubramanian, G. Ferrari, 2016, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2016-66315), November 11-17, 2016, Phoenix, USA. Experiments and simulations in travelling wave and non-stationary nonlinear vibrations of circular cylindrical shells.
- 276) E. Tubaldi, M. Amabili, M.P. Paidoussis, 2016, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2016-66840), November 11-17, 2016, Phoenix, USA. Nonlinear response of shells conveying pulsatile flow with pulse-wave propagation.
- 277) P. Balasubramanian, M. Amabili, G. Ferrari, Z.J.G.N. del Prado, 2016, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2016-67560), November 11-17, 2016, Phoenix, USA. Theoretical and experimental study on large amplitude vibrations of clamped viscoelastic plates.
- 278) M. Amabili, 2016, *Proceedings of the 5th International Conference on Nonlinear Dynamics (ND-KhPI2016)*, pp. 12-15 September 27-30, 2016, Kharkov, Ukraine. Identification of nonlinear damping for large-amplitude vibrations of plates and curved panels. (Invited plenary lecture).
- 279) I.D. Breslavsky, M. Amabili, M. Legrand, 2016, *Proceedings of the 5th International Conference on Nonlinear Dynamics (ND-KhPI2016)*, p. 275, September 27-30, 2016, Kharkov, Ukraine. Circular cylindrical shell made of neo-Hookean-Fung hyperelastic material under static and dynamic pressure.

- 280) Z.J.G.N. del Prado, M. Amabili, P. B. Gonçalves, F. Da Silva, 2016, European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS2016), 5-10 June 2016, Crete Island, Greece. Geometry effects on the nonlinear oscillations of viscoelastic cylindrical shells.
- 281) I.D. Breslavsky, M. Amabili, M. Legrand, 2016, *12th World Congress on Computational Mechanics*, 24-29 July 2016, Seoul, Republic of Korea. Aortic segment under pressure load.
- 282) E. Tubaldi, M. Amabili, M.P. Paidoussis, 2015, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2015-50950), November 13-19, 2015, Houston, USA. Fluid structure interaction for nonlinear response of aorta replacement.
- 283) G. Ferrari, M. Amabili, P. Balasubramanian, 2015, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2015-50951), November 13-19, 2015, Houston, USA. Nonlinear damping on large-amplitude vibrations of plates.
- 284) J. Delannoy, M. Amabili, B. Matthews, B. Painter, K. Karazis, 2015, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2015-52874), November 13-19, 2015, Houston, USA. Non-linear damping identification in nuclear systems under external excitation.
- 285) M. Amabili, 2015, International Conference on Advances in Applied and Computation Mechanics (ACM 2015), August 5–7, 2015, Izmir, Turkey. Nonlinear vibrations of shells made of traditional, advanced and soft materials. (Invited plenary lecture).
- 286) I.D. Breslavsky, M. Amabili, M. Legrand, 2015, 9th European Solid Mechanics Conference, 6-10 July 2015, Leganés-Madrid, Spain. Statics and dynamics of circular cylindrical shell made of arterial material.
- 287) M. Amabili, 2015, 1st International Conference on Advances in Vibrations, March 30 – April 1, 2015, Porto, Portugal. Nonlinear vibrations of shells made of traditional, advanced and soft materials (ICAV 8815). (Invited plenary lecture).
- 288) M. Amabili, 2015, 1st International Conference on Advances in Vibrations, March 30 – April 1, 2015, Porto, Portugal. Non-linearities in rotation and thickness deformation in a new third-order thickness deformation theory for static and dynamic analysis of isotropic and laminated doubly curved shells (ICAV 8816).
- 289) I.D. Breslavsky, M. Amabili, M. Legrand, 2014, *11th World Congress on Computational Mechanics*, Barcelona, Spain, 20-25 July. Static and dynamic bending of rectangular sheet of biomaterial.
- 290) M. Amabili, R. Garziera, 2014, *11th World Congress on Computational Mechanics*, Barcelona, Spain, 20-25 July. Nonlinear vibrations of shells: experiments, simulations and applications.
- 291) M. Kheiri, M.P. Paidoussis, M. Amabili, 2014, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2014-36691), November 14-20, Montreal, Canada. Dynamics and Stability of Towed Flexible Cylinders: Theory and Experiments.
- 292) F. Alijani, M. Amabili, 2014, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2014-37131), November 14-20, Montreal, Canada. Nonlinear vibrations of pressurized functionally graded plates using higher-order thickness stretching theory.
- 293) E. Tubaldi, M. Amabili, F. Alijani, 2014, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2014-37283), November 14-20, Montreal, Canada. Nonlinear vibrations of plates in axial pulsating flow.
- 294) G. Ferrari, M. Capriotti, M. Amabili, R. Garziera, 2014, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2014-37611), November 14-20, Montreal, Canada. Active vibration control of a composite sandwich plate.
- 295) M. Amabili, K. Karazis, D. Gottuso, J. Hartman, B. Matthews, V. Hatman, 2014, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2014-38573), November 14-20, Montreal, Canada. Fluid-structure interaction of slender structures with applications in nuclear engineering.
- 296) M. Kheiri, M.P. Paidoussis, M. Amabili, 2014, *Proceedings of the ASME 2014 Pressure Vessels & Piping Conference* (PVP2014-28337), 20-24 July, Anaheim, CA, USA. An experimental study of dynamics of towed flexible cylinders.
- 297) I.D. Breslavsky, M. Legrand, M. Amabili, 2014, *Proceedings of the ASME 2014 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, Buffalo, New York, USA, 17-20 August. Vibration of a square hyperelastic plate around statically pre-loaded state
- 298) S. Lacaze, S. Missoum, F. Alijani, M. Amabili, 2014, *Proceedings of the American Society for Composites 29th Technical Conference, 16th US-Japan Conference on Composite Materials, ASTM-D30 Meeting* (paper 435), 8-10 September, La Jolla, CA, USA. Identification under uncertainty of material properties of composite sandwich panels.

- 299) F. Alijani, M. Amabili, 2014, *Proceedings of the 8th European Nonlinear Dynamics Conference (ENOC 2014)*, 6-11 July, Wien, Austria, paper ID 451. Large amplitude vibrations of fluid filled angle-ply laminated circular cylindrical shells.
- 300) M. Amabili, F. Alijani, 2014, *Proceedings of the 8th European Nonlinear Dynamics Conference (ENOC 2014)*, 6-11 July, Wien, Austria, paper ID 455. Nonlinear vibrations of shell type structures: theory & experiments ([keynote lecture](#)).
- 301) A. Zippo, M. Amabili, F. Pellicano, M. Barbieri, 2014, *Proceedings of the 8th European Nonlinear Dynamics Conference (ENOC 2014)*, 6-11 July, Wien, Austria, paper ID 538. Linear and nonlinear active vibration control of a sandwich carbon fiber plate.
- 302) M. Amabili, 2014, 4th International Conference on Dynamics, Vibration, and Control (ICDVC-2014), 22-25 August, Shanghai, China. Nonlinear vibrations of shells and plates in traditional, soft and advanced materials. ([Invited plenary lecture](#))
- 303) M. Amabili, F. Alijani, 2013, Shell structures: theory and applications (Proceedings of the 10th Conference *Shell structures: theory and applications*, 16-18 October 2013, Gdansk, Poland), Vol. 3, pp. 13-20, CRC Press. Nonlinear vibrations of shells: experiments, simulations and applications ([Invited General Lecture](#)).
- 304) F. Javid, N. Shahmansouri, M. Amabili, R. Mongrain, D. Pasini, J. Angeles, 2013, *Proceedings of the ASME Summer Bioengineering Conference*, (SBC2013-14738), 26-29 June, Sunriver, Oregon, USA. Identification of the toughness properties of mitral valve leaflets.
- 305) N. Shahmansouri, F. Javid, D. Pasini, J. Angeles, M. Amabili, R. Mongrain, 2013, *Proceedings of the ASME Summer Bioengineering Conference*, (SBC2013-14758), 26-29 June, Sunriver, Oregon, USA. Identification of the fatigue properties of mitral valve leaflets.
- 306) F. Alijani, M. Amabili, 2013, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2013-62254), November 15-21, 2013, San Diego, USA. Large amplitude vibrations of laminated rectangular plates with free edges.
- 307) I.D. Breslavsky, M. Amabili, M. Legrand, 2013, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2013-62253), November 15-21, 2013, San Diego, USA. Large amplitude vibrations of thin hyperelastic plates: Neo-Hookean model
- 308) M.H. Ghayesh, M.P. Paidoussis, M. Amabili, 2013, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2013-65785), November 15-21, 2013, San Diego, USA. Nonlinear planar dynamics of fluid-conveying cantilevered extensible pipes.
- 309) M.H. Gayesh, M. Amabili, 2013, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2013-65492), November 15-21, 2013, San Diego, USA. Nonlinear dynamics of axially moving plates with rotational springs.
- 310) M.H. Gayesh, M. Amabili, H. Farokhi, 2013, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2013-65458), November 15-21, 2013, San Diego, USA. Stability and bifurcations in three-dimensional analysis of axially moving beams.
- 311) M.H. Gayesh, M. Amabili, H. Farokhi, 2013, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2013-65458), November 15-21, 2013, San Diego, USA. Stability and bifurcations in three-dimensional analysis of axially moving beams.
- 312) M. Amabili, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. A new higher-order shear deformation theory with thickness variation for large-amplitude vibrations of laminated shells.
- 313) N. Shahmansouri, M. Amabili, R. Leask, R. Mongrain, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Investigation of damage accumulation in aortic tissue subjected to fatigue loading.
- 314) M. Kheiri, M.P. Paidoussis, M. Amabili, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Aspects of nonlinear dynamics of towed flexible cylinders.
- 315) M.H. Gayesh, M. Amabili, M.P. Paidoussis, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Stability and bifurcations of fluid-conveying cantilevered extensible pipes.
- 316) F. Alijani, M. Amabili, G. Ferrari, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Nonlinear dynamics of sandwich rectangular plates with free edges.
- 317) F. Alijani, M. Amabili, G. Ferrari, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Experiments for large amplitude vibrations of sandwich panels.

- 318) E. Tubaldi, F. Alijani, M. Amabili, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Nonlinear vibrations of a periodically supported rectangular plate immersed in axial flow.
- 319) A. Zippo, M. Amabili, F. Pellicano, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Linear and nonlinear active vibration control of composite fiber plates.
- 320) M.H. Gayesh, M. Amabili, M.P. Paidoussis, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Stability and bifurcations of an axially moving plate.
- 321) I.D. Breslavsky, M. Amabili, M. Legrand, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Static and dynamic analysis of hyperelastic plates.
- 322) M.H. Gayesh, M. Amabili, H. Farokhi, R. Garziera, 2013, *Proceedings of the 4th Canadian Conference on Nonlinear Solid Mechanics*, July 23-26, Montreal, Canada. Three dimensional nonlinear dynamics of an axially moving beam.
- 323) M. Kheiri, M.P. Paidoussis, M. Amabili, 2013, *Proceedings of the 24th CANCAM*, June 2-6, Saskatoon, Canada. A nonlinear model for dynamics of a towed flexible cylinder.
- 324) I.D. Breslavsky, M. Amabili, M. Legrand, 2013, *Nonlinear dynamics. Proceeding of the Fourth International Conference*, Sevastopol, Ukraine, 19-22 June, pp. 216-220. Large amplitude vibrations of thin hyperelastic plates.
- 325) V. D'Alessandro, M. Amabili, S. De Rosa, F. Franco, 2012, *Proceedings of the Noise and Vibration: Emerging Methods (NOVEM) Conference*, 1-4 April 2012, Sorrento, Italy. Preliminary identifications of sandwich panels.
- 326) I.D. Breslavsky, M. Amabili, M. Legrand, 2012, *Proceedings of the European Solid Mechanics Conference (Euromech)*, 9-13 July, Graz. Austria. Physically and geometrically nonlinear vibrations of thin rectangular plates.
- 327) M. Amabili, 2012, *Proceedings of the European Solid Mechanics Conference (Euromech)*, 9-13 July, Graz. Austria. Comparison of different shell theories for nonlinear vibrations of laminated circular cylindrical shells.
- 328) M. Amabili, 2012, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2012-85615), November 9-15, Houston, USA. A new higher-order shear deformation theory with thickness variation for nonlinear vibrations of laminated doubly curved shells.
- 329) F. Alijani, M. Amabili, 2012, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2012-89140), November 9-15, Houston, USA. Nonlinear parametric instability of functionally graded rectangular plates in thermal environments.
- 330) M. Amabili, K. Karazis, R. Mongrain, N. Shahmansouri, 2012, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2012-89141), November 9-15, Houston, USA. A model for the nonlinear buckling of human aorta.
- 331) F. Alijani, M. Amabili, 2012, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2012-89724), November 9-15, Houston, USA. Large amplitude vibrations of completely free rectangular plates.
- 332) B. Koh, E. Rustighi, B. Mace, M. Amabili, 2012, *Proceedings of the 25th International Seminar on Modal Analysis (ISMA 25)*, September 17-19, Leuven, Belgium. Numerical and experimental assessment of hybrid active-passive damping treatments.
- 333) M. Kheiri, M.P. Paidoussis, M. Amabili, B.I. Epureanu, 2012, *Proceedings of the 10th International Conference on Flow Induced Vibration (FIV 2012)*, Dublin, Ireland, 3-6 June. Three-dimensional dynamics of long pipes towed underwater.
- 334) M.P. Paidoussis, M. Amabili, M. H. Ghayesh, 2012, *Proceedings of the 10th International Conference on Flow Induced Vibration (FIV 2012)*, Dublin, Ireland, 3-6 June. Dynamics of fluid-conveying cantilevered pipes with additional adornments.
- 335) M. Amabili, 2011, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2011-65697), November 11-17, 2011, Denver, USA. New results on nonlinear vibrations and stability of shells (Invited Plenary Lecture).
- 336) G. Pilgun, M. Amabili, 2011, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2011-64349), November 11-17, 2011, Denver, USA. Analysis of nonlinear forced vibrations of shallow shells with cut-outs by using the R-function method.

- 337) F. Alijani, M. Amabili, K. Karazis, 2011, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2011-64822), November 11-17, 2011, Denver, USA. Chaotic vibrations of functionally graded doubly curved shells with internal resonance.
- 338) G. Pilgun, M. Amabili, 2011, *Proceedings of the ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2011* (DETC2011-47682) on CD-Rom, 29-31 August, Washington, DC, USA. Multi-modal nonlinear forced vibrations of circular cylindrical shells of arbitrary shapes.
- 339) G. Pilgun, M. Amabili, 2011, *Proceedings of the 23^d Canadian Congress of Applied Mechanics (2011 CANCAM)*, 5-9 June, Vancouver, BC, Canada. Mesh-less discretization of nonlinear vibrations of cylindrical panels with complex shapes by the R-functions method.
- 340) F. Alijani, M. Amabili, G. Ferrari, 2011, *Proceedings of the 1st International Conference on Acoustics and Vibration*, 21-22 December 2011, Tehran, Iran. Nonlinear dynamics of harmonically excited symmetrically laminated cylindrical panels.
- 341) G. Pilgun, M. Amabili, 2011, *Booklet of Abstracts of the 7th Euromech Nonlinear Dynamics Conference (ENOC 2011)*, p. 58, 24-29 July, Rome, Italy. Nonlinear vibration of a clamped panel with complex geometry: R-functions method.
- 342) M. Amabili, Ye. Kurylov, 2011, *Booklet of Abstracts of the 7th Euromech Nonlinear Dynamics Conference (ENOC 2011)*, p. 64, 24-29 July, Rome, Italy. Nonlinear vibrations of clamped-free shells.
- 343) F. Alijani, F. Bakhtiari-Nejad, M. Amabili, 2011, *Booklet of Abstracts of the 7th Euromech Nonlinear Dynamics Conference (ENOC 2011)*, p. 65, 24-29 July, Rome, Italy. Thermal effects on nonlinear vibrations of functionally graded rectangular plates.
- 344) M. Amabili, J.N. Reddy, 2010, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2010-39483), November 12-18, 2010, Vancouver, Canada. A new nonlinear higher-order shear deformation theory for nonlinear vibrations of laminated shells.
- 345) K. Karagiozis, M. Amabili, R. Mongrain, M.P. Païdoussis, R. Cartier, 2010, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2010-39498), November 12-18, 2010, Vancouver, Canada. Human aorta buckling related to dissection.
- 346) C. Touzé, O. Thomas, M. Amabili, 2010, *Proceedings of the ASME Design Technical Conference*, (DETC2010-28259), August 15-18, Montreal, Canada. Forced Vibrations of Circular Plates: from Periodic to Chaotic Motions.
- 347) Ye. Kurylov, M. Amabili, 2010, *Proceedings of the ASME Design Technical Conference*, (DETC2010-28484), August 15-18, Montreal, Canada. Nonlinear vibrations of cantilever circular cylindrical shells.
- 348) M. Amabili, K. Karagiozis, S. Farhadi, K. Khorshidi, 2010, *Proceedings of the ASME Design Technical Conference*, (DETC2010-28484), August 15-18, Montreal, Canada. Nonlinear vibration of plates using classical and higher order theory for different boundary conditions.
- 349) M. Kheiri, M.P. Païdoussis, M. Amabili, 2010, *Proceedings of the ASME 3rd joint US-European Fluid Engineering Summer Meeting*, (FEDSM-ICNMM2010-30082), August 1-5, Montreal, Canada. On the feasibility of using linear fluid dynamics in an overall nonlinear model for the dynamics of cantilevered cylinders in axial flow.
- 350) M. H. Ghayesh, M. Amabili, M.P. Païdoussis, 2010, *Proceedings of the ASME 3rd joint US-European Fluid Engineering Summer Meeting*, (FEDSM-ICNMM2010-30085), August 1-5, Montreal, Canada. Phase-shift determination in Coriolis flowmeters with added masses.
- 351) E. Ghavanloo, F. Daneshmand, M. Amabili, 2010, *Proceedings of the ASME 3rd joint US-European Fluid Engineering Summer Meeting*, (FEDSM-ICNMM2010-30636), August 1-5, Montreal, Canada. Two-dimensional shell vibration of microtubule in living cell.
- 352) E. Askari, F. Daneshmand, M. Amabili, 2010, *Proceedings of the ASME 3rd joint US-European Fluid Engineering Summer Meeting*, (FEDSM-ICNMM2010-31120), August 1-5, Montreal, Canada. Sloshing in a vertical circular cylindrical tank with a vertical baffle.
- 353) M. Amabili, K. Karagiozis, M.P. Païdoussis, 2010, *Proceedings of the ASME 3rd joint US-European Fluid Engineering Summer Meeting*, (FEDSM-ICNMM2010-30814), August 1-5, Montreal, Canada. Hyperchaotic behaviour of shells subjected to flow and external force.
- 354) K. Karagiozis, M. Amabili, R. Mongrain, R. Cartier M.P. Païdoussis, 2010, *Proceedings of the ASME 3rd joint US-European Fluid Engineering Summer Meeting*, (FEDSM-ICNMM2010-30812), August 1-5, Montreal, Canada. Buckling of human aorta related to dissection due to flow-pressure conditions.
- 355) M. Amabili, Ye. Kurylov, R. Garziera, 2010, *Proceedings of the 3rd International Conference Nonlinear Dynamics*, p. 242-247, 21-24 September, Kharkov, Ukraine. Polynomial versus trigonometric expansions for nonlinear vibrations of shells with different boundary conditions (invited plenary lecture).

- 356) K. Karagiozis, M. Amabili, M.P. Paidoussis, 2010, Proceedings of the 16th US National Congress of Theoretical and Applied Mechanics (USNCTAM2010-926), June 27-July 2, State College, PA, USA. Hyperchaos in shells subjected to internal fluid and external transverse periodic loads.
- 357) K. Karagiozis, M. Amabili, R. Mongrain, M.P. Paidoussis, R. Cartier, 2010, *Canadian Cardiovascular Conference*, 24-28 October, Montreal. Nonlinear behaviour of aorta at critical flow conditions related to dissection.
- 358) M. Amabili, K. Karagiozis, S. Farhadi, K. Khorshidi, 2010, Book of Abstracts of the 3rd *Chaotic Modeling and Simulation International Conference (Chaos 2010)*, 1-4 June, Chania, Greece, p. 1-2. Nonlinear vibration of plates with different boundary conditions using higher order theory.
- 359) M. Amabili, Ye. Kurylov, 2009, *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, (IMECE2009-10891), November 13-19, 2009, Lake Buena Vista, Florida, USA. Nonlinear vibrations of circular cylindrical shells with different boundary conditions.
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