


PERSONAL INFORMATION **Francesco Pellicano**

 Department of Engineering Enzo Ferrari, University of Modena and Reggio Emilia, Via P. Vivarelli 10, 41125 Modena (Italia)



 www.vibrazioni.unimore.it www.dief.unimore.it <http://www.intermech.unimore.it>

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ResearcherID: M-2948-2015

WORK EXPERIENCE

Actual position since 01/11/2017 **Full Professor University of Modena and Reggio Emilia, Modena (Italy)**

Activities Research, Teaching, Fund rising

Appointments

- Member of the Trust Committee of the bank foundation "Fondazione Cassa di Risparmio di Mirandola" since 3rd March 2016
- Head of the Research and Technology Transfer group of the Centre InterMech - MO.RE "Lab of Vibration"
- Head of the Lab Vibro-Acoustics and Powertrain", Dept. of Engineering "Enzo Ferrari", www.vibrazioni.unimore.it

Past Appointments

- Head of the Centre InterMech- MO.RE. (Interdepartmental Centre for Applied Research and Services in Advanced Mechanics and Automotive), Università di Modena e Reggio Emilia, <http://www.intermech.unimore.it> since ~~Nov 2019~~ – March 19 2024.
- Member of the Research committee of the Univ. of Modena and Reggio Emilia from 10th March 2016 to 31 November 2019.
- Member of the national committee for the scientific qualification of the scientific sector Mechanisms and Machine Theory (09/A2-Meccanica Applicata alle Macchine, art. 8, comma 1, d.d. n. 1052 del 2018) dal 29/10/2018 al 29/10/2020.
- President of the BsC and MsC programmes committee: Mechanical Engineering BsC and MsC, Vehicle Engineering BsC and MsC, Advanced Automotive Engineering MsC from 1° November 2016/31 to October 2019.
- Vice Head of the Centre InterMech- MO.RE. (Interdepartmental Centre for Applied Research and Services in Advanced Mechanics and Automotive), Università di Modena e Reggio Emilia, <http://www.intermech.unimore.it> since 2014

PAST EXPERIENCE

01/01/2004–31/10/2017 **Associate Professor**
Università di Modena e Reggio Emilia, Modena (Italy)

Past Appointments

- Member of the Research committee of the Univ. of Modena and Reggio Emilia March 10th 2016, Oct. 31 2019.
- Official Delegate for Tutoring of the Course in Mechanical Engineering 2011-2016.

Activities Research, Teaching, Fund rising

01/11/1996–01/01/2004 **University research assistant**
Università di Modena e Reggio Emilia, Modena (Italy)

Activities Research, Teaching, Fund rising

EDUCATION AND TRAINING

05/03/1993 **MSc Aeronautical Engineering**
University of Rome "La Sapienza", Roma (Italy)

16/10/1998 **PhD in Applied and Theoretical Mechanics earned on 1997**
University of Rome "la Sapienza", Roma (Italy)

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

Communication skills Conferences
Relationships with students: teaching, tutoring BSc and MSc student final projects
Relationships with local, regional, national and international industries
Official Tutor Delegate of the Course in Mechanical Engineering

Organisational / managerial skills Management of Research groups
Management of National and International Research projects
Management of BsC and MsC programmes

Job-related skills **Academies**

- Ordinary member of the European Academy of Sciences and Arts, since March 2024

Editorial activities/ Scientific societies/conferences:

- Associate Editor of Chaos, Solitons & Fractals, Elsevier, since 2010.
- Advisory International Editorial Board of Communications in Nonlinear Science and Numerical Simulation, Elsevier, <http://www.elsevier.com/>. Since 2005.
- Academic Editor of: Shock and Vibration, Hindawi Pub. Co., <https://www.hindawi.com/journals/sv/> since 2017.
- Associate Editor of: Journal of Applied Mathematics, Hindawi Pub. Co., <http://www.hindawi.com/journals/jam/> since 2012 al 2017.
- Member of the Editorial board of Vibration, MDPI. Since 2017.
- Advisory Board Member of: Sci, MDPI. Since 2019.
- Associate Editor of: Mathematical Problems in Engineering, Hindawi Pub. Co., <http://www.hindawi.com/journals/mpe/>. Since 2008-2024.
- Editorial Board of The Scientific World Journal, subject area Aerospace Engineering. June 2012 August 2024.

Conference organization

- Chair of Track Dynamics and Control (Track 7) ASME-IMECE 2024
- Co-chair of Track Dynamics and Control (Track 7) ASME-IMECE 2023
- Secretary of Technical Committee di Dynamics and Control of Systems and Structures of the Applied Mechanics Division of the ASME since 2023
- General Chair of the 14th International Symposium on Vibrations of Continuous Systems, ISVCS.
- Local organizer of Int. Symposium on Vibration of Continuous Systems 2019
- Member of the advisory committee of the Int. Symposium on Vibration of Continuous Systems dal 2017.

Prizes/Awards/Rankings

- Presence in the Ranking of Best Scientists in Mechanical and Aerospace Engineering, Research.com 2023
- Presence in the list of Top 2% scientists, Stanford ranking, 2023.
- Best Paper Award. Efficiency and durability of spur gears with surface coatings and surface texturing. 2^d World Conference in Condition Monitoring, 2019.

Plenary Lectures

- Plenary Keynote Lecture – Novel finite element modelling for condition monitoring of gearboxes. Thirteenth International Conference on Condition Monitoring and Machinery Failure Prevention Technologies CM2016/MFPT2016, Paris, France, 2016.

Scientific Committees

- Steering committee of the Nonlinear Dynamics Conference (NODYCON 2025), Hoboken, USA.
- Member of the scientific committee of the International Conference on Advanced Civil Engineering and Smart Structures (ACCESS2022)
- Member of the scientific committee of the INTERNATIONAL CONFERENCE ON NONLINEAR DYNAMICS-KPI 2004 Kharkov, Ukraine.
- Member of the scientific committee of CHAOS 2008 1st Chaotic Modeling and Simulation International Conference 2008 Chania Crete Greece
- Member of the scientific committee of CHAOS 2009 The 2nd Chaotic Modeling and Simulation International Conference 2009 Chania Crete Greece
- Member of the scientific committee of the 3rd INTERNATIONAL CONFERENCE “NONLINEAR DYNAMICS -2010, KPI Kharkov, Ukraine.
- Member of the scientific committee of the 4thINTERNATIONAL CONFERENCE “NONLINEAR DYNAMICS -2013, KPI Sevastopol, Ukraine.

Special issue Guest editor

- Guest editor of the Special Issue Linear and Nonlinear Vibrations of Systems in honor of Emeritus Professor Fabrizio Vestroni (Nonlinear Vibrations), International Journal of Non-Linear Mechanics, Elsevier, 2024.
- Guest editor of the Special Issue Nonlinear Vibration of Mechanical Systems, Vibration, 2024, MDPI.
- Guest editor of the Special Issue "Nonlinear Vibration of Continuous Systems", Journal Shock and Vibration", Hindawi. 2020.
- Guest editor of the Special Issue "Nonlinear Vibration of Continuous Systems", Journal Shock and Vibration", Hindawi. 2019.
- Guest editor of the Special Issue "Multiscale Mechanics and Physics: new approaches and phenomena", Nonlinear Dynamics", Springer. 2018.

Scientific Societies

- Secretary (and future chair) of the Technical Committee on Vibration and Control of Systems and Structures of the ASME, 2023.
- Nominated to the Executive Committee of the Applied Mechanics Division of the ASME for 2024.
- President of the Group of Dynamics and Stability GADeS AIMETA (Italian Association of Theoretical and Applied Mechanics).
- Member of ASME since 2022
- Member of IFToMM Italy from 2016
- Member of AIMETA

Technical officer/Reviewer of R&D projects:

- 2023 Technical officer/reviewer for the Ministry of Enterprises and Made in Italy, 2023.
- 2021-23 – Reviewer and Technical officer for research projects funded by Umbria Region
- 2020 – Member of Committee UNI: UNI/CT 310/GL 09, UNI/CT 311/GL 05
- 2020 –Reviewer and Technical officer for research projects funded by Regione Piemonte
- 2019-20 Reviewer and Technical officer for research projects funded by Provincia Autonoma di Trento
- 2017-18 – Referee for research projects “Regione Lazio”
- 2014, 2017-2023 -Referee for the European Metrology Programme for Innovation and Research (EMPIR) “Industry”, EURAMET, Germany
- Ministry of Economic Development.
 - a. Board member of experts for technological innovation, since 31st August 2016
 - b. Served in the board of experts for technological innovation: 2010-16; renewed in 2016.
 - c. Was Technical Officer, Industria 2015, years 2012-2015
- Italian Ministry of Education, University and Research (MIUR) : reviewer of research projects
 - a. 2017 - Research Project Reviewer Young Researchers Program "Rita Levi Montalcini"
 - b. 2017-18 ETS Expert for the technical-scientific evaluations of Industrial Research and Experimental Development projects in the Aerospace Specialization Area PNR 2015 - 2020
- 2016 Università di Parma, reviewer for FIL projects
- FCAR (Fonds pour la Formation de Chercheurs et l' Aide à la Recherche) Québec, Canada. Reviewer of research projects
- Natural Science and Engineering Research. Reviewer of research projects

RESEARCH

Fields:

- Innovative materials for NVH applications
- Gears: modelling and experimentation.
- Mechanical vibrations: theory and practice
- Dynamics and Stability of structures and mechanical systems.
- Fluid structure interaction. Thermal problems in vibrations.
- NVH.
- Bioengineering

Scientific Research: projects, competitive grants

- 2023 Principal Investigator Composite Metamaterials for Aerospace Structures – CoMetA. NATO/OTAN, Emerging Security Challenges Division. Science for Peace and Security Programme. Code G6176. Cost: 350k€.
- 2023 Principal Investigator digital twin of Electric powertrains for more sustainable agriculture – THEORETIC PR-FESR EMILIA ROMAGNA 2021-2027. Priorità 1: Obiettivo specifico 1.1: Azione 1.1.2. Cost 722k€, funding 500k€.
- Local coordinator. Piattaforma di manutenzione predittiva per il retrofitting sostenibile di impianti e macchinari esistenti nel sistema produttivo dell'Emilia Romagna - REFIMAN-. PR-FESR EMILIA ROMAGNA 2021-2027. Priorità 1: Obiettivo specifico 1.1: Azione 1.1.2. Cost 700k€, local funding 110k€.
- Local coordinator. DIADEM Dimostratori di Diagnostica predittiva e Monitoraggio di componenti elettromeccanici per l'Industria 4.0 mediante lo sviluppo e l'applicazione di un innovativo sensore di deformazione MEMS per misure non invasive ad altissima risoluzione. PR-FESR EMILIA ROMAGNA 2021-2027. Priorità 1: Obiettivo specifico 1.1: Azione 1.1.2. Cost 700k€, local funding 110k€.
- 2020. Principal investigator. Progetto Fluidi non-Newtoniani e Interazione Fluido Struttura / InterFlu (FONDO DI ATENEIO PER LA RICERCA ANNO 2020 PROGETTO DI RICERCA INTERDISCIPLINARE MISSION ORIENTED, code E99C20001160007), finanziamento progetto 55.615,66,€'.
- 2018. Local coordinator of the regional project DiaPro4.0: Sistema 'cost-effective' multisensore di Diagnostica-Prognostica integrato in azionamenti meccanici dell'Industria 4.0, (Multisensor 'cost-effective' system of Diagnostics-Prognostics integrated in mechanical drives of Industry 4.0) PG/2018/632156 , type of grant POR-FESR EMILIA ROMAGNA 2014-2020. Local funding € 250.118,75, total project cost € 1.430.230,62.
- 2017-22 Local coordinator of the project "Omnidirectional earthquake isolation system"; code UOWX1801. Financing body: New Zealand, Ministry of Business Innovation and Employment: Local funding €79.405,89, total project cost 1.1142.653,80 NZ\$.
- 2017. Principal investigator - Fondo di Ateneo per la ricerca 2016. Title: Dinamica nonlineare di strutture in parete sottile sottoposte a forti gradienti termici (Nonlinear dynamics of thin walled structures under strong thermal gradients). Project cost 6490 euro.
- 2016. Principal Investigator of the regional project "Piattaforma integrata per la progettazione e la produzione avanzata di riduttori industriali – MetAGEAR" (PG/2015/732270) (Integrated framework for design and production of industrial gearboxes). Funding source: REGIONE EMILIA ROMAGNA POR-FESR 2014-2020 - PROGETTI DI RICERCA INDUSTRIALE STRATEGICA. April 2016 – April 2018. Project cost 1.344.660,00 euro, funding 971.019,00 euro.
- 2014. Coordinator of the Experiment, Project FP7 FORTISSIMO, Experiment: HPGA, Funding source FP7-2013-NMP-ICT-FOF 330 000, 15 Oct. 2014- 15 Apr. 2016. Project cost 282.779,00 euro, funding 212,084,00 euro.
- 2013. Local coordinator of the project INDGEAR, Funding source FP7-SME-2013 1 138 051 1 June 2014- 30 May 2016. Project cost 1,476,909.00 euro, funding 1,138,000.00 euro, local funding 265,784.00 euro
- 2003. Local coordinator of the project: COFIN 2003: "VIBRAZIONI DI PANNELLI E

STRUTTURE A GUSCIO CON INTERAZIONE FLUIDO-STRUTTURA". National coordinator Prof. M. Amabili. Project cost 120.000,00 euro. Local funding 41,800.00€

- 2001. Local coordinator of the project COFIN 2000: "Dinamica non-lineare ed interazione fluido struttura in strutture a guscio per applicazioni aerospaziali". National coordinator R. Garziera. Project cost 140,993.00 euro, local funding 43,400.00 euro.
- 2001. Local coordinator of the Young-Researcher-Project CNR-AGENZIA2000: "Instabilità dinamica di tubazioni per fluidodinamica industriale". Project cost 28M Lira (14.460,79 euro).
- 2000. Principal investigator of the project: NATO SCIENCE PROGRAMME Cooperative Science & Technology Sub-Programme COLLABORATIVE LINKAGE GRANT NATO Scientific Affairs Division, Bd. Leopold III, B-1110 Brussels, Belgium; PST.clg.977350 title "Nonlinear Dynamics of Shells with Fluid Structure Interaction". Project cost 400,00.00 Belgian Francs (10,00.00 euro).

Applied research: projects

- Comer Industries SpA 2014: A gearbox model for load and stress analysis. Role: technical/scientific manager.
- Case New Holland 2013: "Hotspot analysis of clutches". Role: technical/scientific manager.
- Agusta Westland SpA 2013: Modelling Skwed Roller Brakes. Role: technical/scientific manager.
- M&B Engineering, 2012-2013: "Optimization of tyre balancers". Role: technical/scientific manager.
- WAM SpA 2011-12 Modelling planetary Gears. Role: technical/scientific manager.
- Case New Holland 2007-8: "Study and definition of simulation models for the static and dynamic behaviour of loaded gears and parts of gearboxes". Role: technical/scientific manager.
- TECNOINGRANAGGI RIDUTTORI SRL" S. Giovanni in Persiceto (BO) 2006. "Modeling a planetary gearbox". Role: technical/scientific manager.
- Motovario S.p.A. Formigine (MO), 2005. "Development of a dynamic numerical model of worm gearmotors". Role: technical/scientific manager.
- TECHNOGEL ITALIA. "DYNAMIC PROPERTIES OF TECHNOGEL". Role: technical/scientific manager.
- DALLAGLIO (Re), "VIBRATION TESTS ON VIBRATING TABLE". Role: technical/scientific manager.
- DTM (MO), "Determinazione dell'RMS e dei picchi di vibrazione in una strumentazione satellitare" .Role: technical/scientific manager.
- MAPE S.p.A. Bazzano (BO). "Experimental analysis of crankshaft vibrations". Role: technical/scientific manager.
- Participant to the project Lugli Carrelli Elevatori (BO): Static and dynamic stability of forklifts
- Case New Holland, Modena. "Theoretical and experimental analysis on gyroscopic (flutter) and thermoelastic (Hot-Spot) instability phenomena in wet clutches for Off-Road vehicle transmissions. 2002. Role: technical/scientific manager.
- Participant to the project of industrial research with AUTOGRU PM SpA, Modena. Titolo: Software (non-commercial) for structural verification of cranes: migration from Unix environment (Fortran language) to Windows environment (MathCad software) and interfacing with 3D CAD, , 2002

Educational projects

- MoreOverseas student mobility, with The Beijing University of Technology, Pechino, Cina, 2011.

Reviewer (partial list):

- ASME Journal of Applied Mechanics
- ASME Journal of Computational and Nonlinear Dynamics
- ASME Journal of Engineering Materials and Technology
- ASME Journal of Vibration and Acoustics,
- Comm. in Nonlinear Science and Numerical Simulation
- Computer Methods in applied Mechanics and Engineering,
- Computers & Structures
- International Journal of Mechanical Science;
- International Journal for Numerical Methods in Engineering
- International Journal of Structural Stability and Dynamics
- International Journal of Systems Science;
- Journal of Solids and Structures;
- Journal of Sound and Vibration,;
- Journal of Vibration and Control;
- Mathematical Problems in Engineering
- Meccanica.
- Nonlinear Dynamics,;
- Proceedings of the Institution of Mechanical Engineers, Part C, Journal of Mechanical Engineering Science;
- SIAM Journal of Applied Mathematics,

SCIENTIFIC COLLABORATIONS

1997- Marco Amabili, Westlake University, Hangzhou, China. Shell dynamics.

2021- Andrew Watson, Loughborough University, Loughborough, UK. Continuous systems vibration.

2022- Alexandr Zuyev, Max Planck Institute for Dynamics of Complex Technical Systems, Germany. Continuous systems vibration, data driven models.

2021-2024 Tetyana Shmatko, Kharkiv Polytechnic University, Kharkiv, Ukraine.

2023- Jerzy Warminski Lublin University of Technology Department of Applied Mechanics. Thermal problems in structural vibrations.

2023- Emil Manoach, Institute of Mechanics, Bulgarian Academy of Sciences, Sofia, Bulgaria. Thermal problems in structural vibrations.

2023- Simona Doneva, Institute of Mechanics, Bulgarian Academy of Sciences, Sofia, Bulgaria. Thermal problems in structural vibrations.

2014-2020 Leonid Manevich, N.N. Semenov Federal Research Center for Chemical Physics, Russian Academy of Sciences, Moscow, Russian Federation.

2011-2022 Ilanko, Waikato University, Hamilton, New Zealand, "Vibration Control and Bio-inspired materials/devices".

2013-2016 Len Gelman, Cranfield University su: Modelling, testing and Condition Monitoring Techniques for gearboxes.

1997-2013 A.O. Andrisano, Univ. Modena and Reggio Emilia. Gears.

2007-2008 Stephanos Theodossiades, Loughborough University (UK), Gears.

2002-2008 Yuri Mikhlin, KPI Kharkov Polytechnic Univ. of Kharkov, Nonlinear Dynamics.

2005-2007 Robert Parker Ohio State University USA, Gears.

2002-2007 Kostantin Avramov, KPI Kharkov Polytechnic Univ. of Kharkov, Shell dynamics.

1996-2002 Annalisa Fregolent, Università di Roma "La Sapienza", Mechanical Transmissions.

1998-2002 Michael P. Païdoussis, Mc Gill University, CANADA, Shells FSI.

1998-2000 Alexander Vakakis, University of Illinois, USA, Nonlinear Dynamics.

1992-2001 Aldo Sestieri, Università di Roma "La Sapienza", Vibrations.

1994-1998 Francesco Zirilli, Dept. of Mathematics, Università di Roma "La Sapienza", Nonlinear Dynamics.

1994-1997 Franco Mastroddi, Dept. of Aerospace, Università di Roma "La Sapienza", Nonlinear Dynamics.

Tutoring

Tutor of 8 PhD and actually 2 PhD students.

Tutor of more than 100 BSc and MSc students.

Teaching

Since 2024: Prognostics and Predictive Maintenance MSc

Since 2023: Dynamic Testing of Vehicles MSc

Since 2002: Mechanical Vibrations MSc

Since 1996: Mechanisms and Machine Theory, Mechanical Vibrations BSc

Since 2018: Multibody Dynamics MSc

Author of more than 140 papers (more than 50 on journals) and 2 books.

Bibliometry

Scopus 5-2024

h-index=38 about 4000 citations

Google Scholar 10-2023

h-index=40, i10-index=71 about 5000 citations

Books

- F. Pellicano, Y. Mikhlin and I. Zolotarev, Nonlinear Dynamics of Shells with Fluid-Structure Interaction. Ed. Inst of Thermomechanics AS CR Prague, 2002, ISBN 80-85918-76-5.
- M. Callegari, P. Fanghella, F. Pellicano, Meccanica Applicata alle Macchine, CittàStudi Edizioni (4 aprile 2013) www.cittastudi.it, ISBN-10: 8825173814, ISBN-13: 978-8825173819.
- M. Callegari, P. Fanghella, F. Pellicano, Meccanica Applicata alle Macchine, CittàStudi Edizioni (4 april 2013) (2nd ed. 2017) www.cittastudi.it, ISBN-13: 978-8825173819.
- M. Callegari, P. Fanghella, F. Pellicano, Meccanica Applicata alle Macchine, CittàStudi Edizioni (4 april 2013) (2nd ed. 2017) (3rd ed. 2022) www.cittastudi.it, ISBN-13: 9788825174397

Book chapters

- M. Strozzi, L.I. Manevitch, F. Pellicano, V.V. Smirnov, D.S. Shepelev, “Nonlinear vibrations and energy distribution of carbon nanotubes”, in “Problems of Nonlinear Dynamics and Condensed Matter Physics”, Collection of Papers dedicated to the 75th birthday of Professor Leonid Isaakovich Manevitch, Edited by A.I. Manevitch, M.A. Mazo, V.V. Smirnov, Semenov Institute of Chemical Physics, Russian Academy of Sciences, Moscow, Russia, 2013, p. 185-209. ISBN 978-5-02-037588-8.
- Barbieri, M., Iarriccio, G., Pellicano, F., Strozzi, M., Zippo, A.. Efficiency and Durability of DLC-Coated Gears, (2021) Mechanisms and Machine Science, 91, pp. 580-588. DOI: 10.1007/978-3-030-55807-9_65.

Journals:

- [1] F. Pellicano, F. Mastroddi, "Nonlinear dynamics of a beam on elastic foundation", *Nonlinear Dynamics*, **14**, 335-355, 1997.
- [2] F. Pellicano, F. Mastroddi, "Applicability conditions of a Non-Linear Superposition Technique", *J. of Sound and Vibration*, **200(1)**, 3-14, 1997.
- [3] F. Pellicano, F. Zirilli "Boundary layers and non-linear vibrations in an axially moving beam", *Int. J. of Non-Linear Mechanics*, **33(4)**, 691-711, 1998.
- [4] M. Amabili, F. Pellicano and M.P. Païdoussis, "Nonlinear vibrations of Simply Supported, Circular Cylindrical Shells, Coupled to Quiescent Fluid". *J. of Fluids and Structures*, **12**, 883-918, 1998.
- [5] M. Amabili, F. Pellicano and M.P. Païdoussis, Letter to the Editor, "Further Comments on Nonlinear Vibrations of Shells", *J. of Fluids and Structures*, **13(1)**, 159-160, 1999.
- [6] M. Amabili, F. Pellicano and M.P. Païdoussis, "Non-Linear Dynamics and Stability of Circular Cylindrical Shells Containing Flowing Fluid. Part I Stability". *J. of Sound and Vibration*, **225(4)**, 655-699, 1999.
- [7] M. Amabili, F. Pellicano and M.P. Païdoussis, "Non-Linear Dynamics and Stability of Circular Cylindrical Shells Containing Flowing Fluid, Part II: Large-Amplitude Vibrations without Flow". *J. of Sound and Vibration*, **228(5)**, 1103-1124, 1999.
- [8] M. Amabili, F. Pellicano and M.P. Païdoussis, "Non-Linear Dynamics and Stability of Circular Cylindrical Shells Containing Flowing Fluid. Part III: Truncation Effect without Flow and Experiments". *J. of Sound and Vibration*, **237 (4)**, 617-640, 2000.
- [9] M. Amabili, F. Pellicano and M.P. Païdoussis, "Non-Linear Dynamics and Stability of Circular Cylindrical Shells Containing Flowing Fluid. Part IV: Large Amplitude of Vibrations with Flow". *J. of Sound and Vibration*, **237(4)**, 641-666, 2000.
- [10] M. Amabili, F. Pellicano and M. P. Païdoussis, "Addendum to Nonlinear Vibrations of Simply Supported Circular Cylindrical Shells, Coupled to Quiescent Fluid", *J. of Fluids and Structures*, **13(6)**, 785-788, 1999
- [11] F. Pellicano and F. Vestroni "Nonlinear Dynamics and Bifurcations of an Axially Moving Beam". *J. of Vibration and Acoustics*, **122**, 21-30, 2000.
- [12] M. Amabili, F. Pellicano and A. F. Vakakis, "Nonlinear Vibrations and Multiple Resonances of Fluid-Filled, Circular Cylindrical Shells, Part 1: Equations of Motion and Numerical Results". *ASME J. of Vibration and Acoustics*, **122**, 346-354, 2000.
- [13] F. Pellicano, M. Amabili and A. F. Vakakis, "Nonlinear Vibrations and Multiple Resonances of Fluid-Filled, Circular Shells, Part 2: Perturbation Analysis". *ASME J. of Vibration and Acoustics*, **122**, 355-364, 2000.
- [14] M. Amabili and F. Pellicano, "Nonlinear Supersonic Flutter of Circular Cylindrical Shells ". *AIAA Journal*, **39 (4)**, 564-573, 2001.
- [15] M. Amabili, M.P. Païdoussis and F. Pellicano, "Comments on "The Effects of Large Vibration Amplitudes on the Mode Shapes and Natural Frequencies of thin Elastic Shells, Part I: ..."", *J. of Sound and Vibration*, **243(1)**, 182-183, 2001.
- [16] F. Pellicano, A. Fregolent, A. Bertuzzi and F. Vestroni, "Primary and Parametric Non-Linear Resonances of a Power Transmission Belt: Experimental and Theoretical Analysis". *J. of Sound and Vibration*, **244(4)**, 669-684, 2001.
- [17] F. Pellicano and A. Vakakis, "Normal Modes and Boundary Layers for a Slender Tensioned Beam on a Nonlinear Foundation". *Nonlinear Dynamics*, **25 (1-3)**, 79-93, 2001.
- [18] M. Amabili, F. Pellicano and M.P. Païdoussis, "Nonlinear Stability of Circular Cylindrical Shells in Annular and Unbounded Axial Flow". *ASME J. Applied Mechanics*, **68**, 827-834, 2001.
- [19] M. Amabili and F. Pellicano, "Multimode Approach to Nonlinear Supersonic Flutter of Imperfect Circular Cylindrical Shells", *ASME J. of Applied Mechanics* , **69**, 117-129, 2002.
- [20] F. Pellicano, M. Amabili and M.P. Païdoussis, "Effect of the geometry on the non-Linear vibration of circular cylindrical shells". *Int. J. of Nonlinear Mechanics*, **37**, 1181-1198, 2002.
- [21] F. Pellicano and F. Vestroni, "Complex Dynamics in High Speed Axially Moving Systems", *J. of Sound and Vibration*, 2002, **258(1)**, 31-44.
- [22] M. Amabili ,F. Pellicano and M. P. Païdoussis, "Non-linear dynamics and stability of circular

- cylindrical shells conveying flowing fluid”, *Computers and Structures*, 2002, **80**, 899-906.
- [23] F. Pellicano, M. Amabili, “Stability and vibration of empty and fluid-filled circular cylindrical shells subjected to dynamic axial loads” *Int. J. of Solids and Structures*, 2003, **40**, 3229-3251.
- [24] F. Pellicano, G. Catellani and A. Fregolent, “Parametric instability of belts: theory and experiments *Computers & Structures*, 2004, **82**, 81–91.
- [25] F. Pellicano, “On the Dynamic Properties of Axially Moving Systems”, *J. of Sound and Vibration*, 2005, **281**, 593-609.
- [26] G. Catellani, F. Pellicano, D. Dall’Asta, M. Amabili, “Parametric Instability of a Circular Cylindrical Shell with Geometric Imperfections”, *Computers & Structures*, 2004, **82**, 2635-2645.
- [27] M. Faggioni, K. Avramov, F. Pellicano, S. N. Reshetnikova, “NONLINEAR OSCILLATIONS AND STABILITY OF GEAR PAIR”, *Journal of Mechanical Engineering (Ukraine)* , 2005, **4**, 40-45. ISSN:0131-2928.
- [28] S. Petaccia, R. Serravall and F. Pellicano, “Improved method of sea level forecasting at Venice (Northern Adriatic Sea)”, *Communications in Nonlinear Science and Numerical Simulation*, 2006, **11**(3), 281-296. doi:10.1016/j.cnsns.2004.11.008.
- [29] F. Pellicano, M. Amabili, “DYNAMIC INSTABILITY AND CHAOS OF EMPTY AND FLUID-FILLED CIRCULAR CYLINDRICAL SHELLS UNDER PERIODIC AXIAL LOADS”, *J. of Sound and Vibration*, 2006, **293**(1-2), 227-252. doi:10.1016/j.jsv.2005.09.032.
- [30] K. V. Avramov and F. Pellicano (К. В. Аврамов, Ф. Пеллиcano), “Dynamical instability of cylindrical shell with big mass at the end (Динамическая неустойчивость цилиндрической оболочки с диском на конце)”, *REPORTS OF THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE*, (in Russian) , 2006, **5**, 41-46.
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