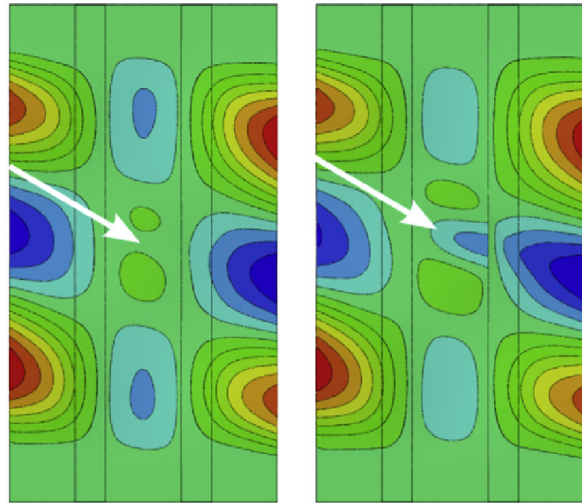




Professor Riccardo Vescovini



From: R. Vescovini, C.G. Dávila, C. Bisagni, Failure Analysis of Composite Multi-Stringer Panels Using Simplified Models, Composites Part B: Engineering, 2013, Vol. 45, No. 1, pp. 939-951.

See:

<https://scholar.google.it/citations?user=jjk4Vc4AAAAJ&hl=it&oi=ao>

https://www.researchgate.net/profile/Riccardo_Vescovini

https://www4.ceda.polimi.it/manifesti/manifesti/controller/ricerche/RicercaPerDocentiPublic.do?EVN_PRODOTTI=evento&lang=IT&k_doc=169898&aa=2017&n_docente=vescovini&tab_ricerca=1&jaf_currentWFID=main

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Research interests:

- Buckling and postbuckling of composite structures
- Structural optimization
- High-order and variable-kinematic theories

Journals

- R. Vescovini, L. Dozio, M. D'Ottavio, O. Polit, On the Application of the Ritz Method to Free Vibration and Buckling Analysis of Highly Anisotropic Plates, Composite Structures, 2018, Vol. 192, pp. 460-474. (<https://dx.doi.org/10.1016/j.compstruct.2018.03.017>)

- M. D'Ottavio, L. Dozio, R. Vescovini, O. Polit, The Ritz -- Sublaminare Generalized Unified Formulation Approach for Piezoelectric Composite Plates, *International Journal of Smart and Nano Materials*, 2018, Vol. 9, pp. 34-55. (<https://dx.doi.org/10.1080/19475411.2017.1421275>)
- R. Vescovini, M. D'Ottavio, L. Dozio, O. Polit, Thermal Buckling Response of Laminated and Sandwich Plates using Refined 2-D Models, *Composite Structures*, 2017, Vol. 176, pp. 313-328. (<https://dx.doi.org/10.1016/j.compstruct.2017.05.021>)
- D. Bellora, R. Vescovini, Hybrid Geometric-Dissipative Arc-Length Methods for the Quasi-Static Analysis of Delamination Problems, *Computers & Structures*, 2016, Vol. 175, pp. 123-133. (<https://dx.doi.org/10.1016/j.compstruc.2016.07.002>)
- M. D'Ottavio, L. Dozio, R. Vescovini, O. Polit, Bending Analysis of Composite Laminated and Sandwich Structures using Sublaminare Variable-Kinematic Ritz Models, *Composite Structures*, 2016, Vol. 155, pp. 45-62. (<https://dx.doi.org/10.1016/j.compstruct.2016.07.036>)
- R. Vescovini, C. Bisagni, Fast Analysis of Non-Symmetric Panels Using Semi-Analytical Techniques, *Composites Part B: Engineering*, 2016, Vol. 99, pp. 48-62. (<https://dx.doi.org/10.1016/j.compositesb.2016.05.044>)
- R. Vescovini, L. Dozio, A Variable-Kinematic Model for Variable Stiffness Plates: Vibration and Buckling Analysis, *Composite Structures*, 2016, Vol. 142, pp.15-26. (<https://dx.doi.org/10.1016/j.compstruct.2016.01.068>)
- M. Bronstein, E. Feldman, R. Vescovini, C. Bisagni, Assessment of Dynamic Effects on Aircraft Design Loads: the Landing Impact Case, *Progress in Aerospace Sciences*, 2015, Vol. 78, pp. 131-139. (<https://dx.doi.org/10.1016/j.paerosci.2015.06.003>)
- T. Ludwig, M. Doreille, S. Merazzi, R. Vescovini, C. Bisagni, Dynamic Finite Element Simulations of Composite Stiffened Panels with a Transverse-Isotropic Viscoelastic Energy Dissipation Model, *Progress in Aerospace Sciences*, 2015, Vol. 78, pp. 30-38. (<https://dx.doi.org/10.1016/j.paerosci.2015.06.001>)
- R. Vescovini, C. Bisagni, A Procedure for the Evaluation of Damping Effects in Composite Laminated Structures, *Progress in Aerospace Sciences*, 2015, Vol. 78, pp. 19-29. (<https://dx.doi.org/10.1016/j.paerosci.2015.05.004>)
- R. Vescovini, L. Dozio, Exact Refined Buckling Solutions for Laminated Plates Under Uniaxial and Biaxial Loads, *Composite Structures*, 2015, Vol. 127, pp. 356-368. (<https://dx.doi.org/10.1016/j.compstruct.2015.03.003>)
- R. Vescovini, C. Bisagni, Semi-Analytical Buckling Analysis of Omega Stiffened Panels Under Multi-Axial Loads, *Composite Structures*, 2015, Vol. 120, pp. 285-299. (<https://dx.doi.org/10.1016/j.compstruct.2014.10.003>)
- R. Vescovini, C. Bisagni, A Fast Procedure for the Design of Composite Stiffened Panels, *The Aeronautical Journal*, 2015, Vol. 119, No. 1212, pp. 185-201. (<https://dx.doi.org/10.1017/S0001924000010332>).
- R. Vescovini, C. Bisagni, Two-Step Procedure for Fast Post-Buckling Analysis of Composite Stiffened Panels, *Computers & Structures*, 2013, Vol. 128, pp. 38-47. (<https://dx.doi.org/10.1016/j.compstruc.2013.06.002>)
- R. Vescovini, C.G. Dávila, C. Bisagni, Failure Analysis of Composite Multi-Stringer Panels Using Simplified Models, *Composites Part B: Engineering*, 2013, Vol. 45, No. 1, pp. 939-951. (<https://dx.doi.org/10.1016/j.compositesb.2012.07.030>)
- R. Vescovini, C. Bisagni, Buckling Analysis and Optimization of Stiffened Composite Flat and Curved Panels, *AIAA Journal*, 2012, Vol. 50, No. 4, pp. 904-915. (<https://dx.doi.org/10.2514/1.J051356>)
- R. Vescovini, C. Bisagni, Single-Mode Solution for Post-Buckling Analysis of Composite Panels with Elastic Restraints Loaded in Compression, *Composites Part B: Engineering*, 2012, Vol. 43, No. 3, pp. 1258-1274. (<https://dx.doi.org/10.1016/j.compositesb.2011.08.029>)
- C. Bisagni, R. Vescovini, C.G. Dávila, Single-Stringer Compression Specimen for the Assessment of Damage Tolerance of Postbuckled Structures, *Journal of Aircraft*, 2011, Vol. 48, No. 2, pp. 495-502. (<https://dx.doi.org/10.2514/1.C031106>)
- C. Bisagni, R. Vescovini, Fast Tool for Buckling Analysis and Optimization of Stiffened Panels, *Journal of Aircraft*, 2009, Vol. 46, No. 6, pp. 2041-2053. (<https://dx.doi.org/10.2514/1.43396>)

- C. Bisagni, R. Vescovini, Analytical Formulation for Local Buckling and Post-Buckling Analysis of Stiffened Laminated Panels, Thin-Walled Structures, 2009, Vol. 47, No. 3, pp. 318-334. (<https://dx.doi.org/10.1016/j.tws.2008.07.006>)

Other

- R. Vescovini, C. Bisagni, Buckling and Post-Buckling Analysis of Composite Stiffened Panels Using a Semi-Analytical Approach, Buckling and Postbuckling Structures: Experimental, Analytical and Numerical Studies, Vol 2. Imperial College Press/World Scientific Publication. (https://doi.org/10.1142/9781786344335_0006)
- R. Vescovini, C.G. Davila, C. Bisagni, Simplified Models for the Study of Postbuckled Hat-Stiffened Composite Panels, NASA Technical Memorandum, TM-2012-217336, 2010.
- M. D'Ottavio, R. Vescovini, L. Dozio, O. Polit, A Sublaminar Generalized Unified Formulation for Buckling and Wrinkling of Sandwich Plates, 2016 EMI International Conference, October 25-27, 2016, Metz, France.
- L. Dozio, M. D'Ottavio, R. Vescovini, O. Polit, Dynamic Analysis of Multilayered Plates with Viscoelastic Layers Using a Sublaminar Generalized Unified Formulation, ICCS19, 19th International Conference on Composite Structures, September 5-9, 2016, Porto, Portugal.
- F. Simon, T. Haase, O. Unruh, G.L. Ghiringhelli, A. Parrinello, R. Vescovini, Benchmark for Modelization of Acoustic Transmission Loss Applied to Helicopter Trim Panels, 42nd European Rotorcraft Forum, September 5-8, 2016, Lille, France.
- Bronstein, E. Feldman, R. Vescovini, C. Bisagni, A Study of the Dynamic Effects on the Design Loads of a Civil Aircraft, IACAS 2016, 56th Israel Annual Conference on Aerospace Sciences, March 9-10, 2016, Tel Aviv-Haifa, Israel.
- R. Vescovini, C. Bisagni, Optimization of Non-Symmetric Composite Panels Using Fast Analysis Techniques, ICCM20, 20th International Conference on Composite Materials, July 19-24, 2015, Copenhagen, Danimarca.
- L. Dozio, R. Vescovini, A. Spalluto, M. Spinelli, The vk-Ritz Method for Bending, Vibration and Buckling Analysis of Heterogeneous Multilayered Plates, SPB2015, International Conference on Shells, Plates and Beams, September 9-11, 2015, Bologna, Italy.
- L. Dozio, R. Vescovini, Refined Buckling Analysis of Composite Plates Under Various Boundary Conditions, ICCS18, 18th International Conference on Composite Structures, June 15-18, 2015, Lisbona, Portugal.
- M. Dalenbring, U. Falk, A. Zdunek, C. Bisagni, R. Vescovini, Static and Dynamic Buckling of a DAEDALOS Composite Panel Including Material Damping, 56th AIAA/ASME/ ASCE/ AHS/ASC Structures, Structural Dynamics, and Materials Conference, January 5-9, 2015, Kissimee, Florida, USA.
- R. Vescovini, C. Bisagni, Numerical/Experimental Procedure for the Transient Dynamic Analysis of Composite Laminated Structures, Composites 2013, IV ECCOMAS Thematic Conference on the Mechanical Response of Composites, September 25-27, 2013, S. Miguel, Azores, Portugal.
- R. Vescovini, C. Bisagni, A Fast Procedure for the Design of Composite Stiffened Panels, 3rd Aircraft Structural Design Conference, October 9-11, 2012, Delft, The Netherlands.
- R. Vescovini, C. Bisagni, Dynamic Analysis of Composite Stiffened Panels Subjected to Compressive Load, AIAA-2012-1380, 53rd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, April 23-26, 2012, Honolulu, Hawaii, USA.
- R. Vescovini, C. Bisagni, Two-Step Post-Buckling Analysis of Composite Stiffened Panels, ECCOMAS, 3rd Thematic Conference on the Mechanical Response of Composites, September 21-23, 2011, Hannover, Germany.
- R. Vescovini, C. Bisagni, Buckling Optimization of Stiffened Composite Flat and Curved Panels, AIAA-2011-2124, 52nd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, April 4-7, 2011, Denver, Colorado, USA.
- C. Bisagni, R. Vescovini, Buckling Optimization of Composite Omega-Stiffened Panels, ECCOMAS, IV European Conference on Computational Mechanics, May 16-21, 2010, Paris, France.
- C. Bisagni, R. Vescovini, C.G. Davila, Assessment of the Damage Tolerance of Postbuckled, Hat-Stiffened Panels Using Single-Stringer Specimens, AIAA-2010-2696, 51st AIAA/ASME/

ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, April 12-15, 2010, Orlando, Florida, USA.

- R. Vescovini, C. Bisagni, Optimization of Stiffened Composite Panels with Buckling and Failure Requirements, ICCS15, 15th International Conference on Composite Structures, June 15-17, 2009, Porto, Portugal.
- C. Bisagni, R. Vescovini, A Fast Tool for Analysis and Optimization of Isotropic and Composite Stiffened Panels, AIAA-2008-5978, 12th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference, September 10-12, 2008, Victoria, Canada.
- R. Vescovini, L. Dozio, Higher-Order Solutions for Buckling and Vibration Analysis of Variable Stiffness Plates, AIDAA2015, 23rd Conference of the Italian Association of Aeronautics and Astronautics, November 17-19, 2015, Turin, Italy.
- R. Vescovini, C. Bisagni, Analytical Approach for the Buckling of Composite Panels with Different Stringer Shapes, 20th Conference of the Italian Association of Aeronautics and Astronautics, June 29 - July 3, 2009, Milan, Italy.