

Referências Bibliográficas

ALBERTO, L.F.C., BRETAS, N.G. Estudo da Condição de Transversalidade em Sistemas de uma Máquina versus Barramento Infinito. **Revista Controle & Automação**, v. 12, n. 1, p. 29-35, 2001.

ARNOLD, V.I. **Mathematical Methods of Classical Mechanics**. 2.ed. Springer, New York, USA, 1989.

ANDRIANOV, I. V. Asymptotical construction of nonlinear normal modes for continuous system. **Nonlinear Dynamics**, v. 51, p. 99-109, 2008.

ANTONINI, R.C. **Influência da Interação entre Modos e Imperfeições na Flambagem de Cascas Cilíndricas Axialmente Comprimidas**. Dissertação de Mestrado – COPPE/UFRJ, Rio de Janeiro, 1981.

AUGUSTI, G. Stabilità di Struture Elastiche Elementari in Presenza di Grandi Spostamenti. **Atti. Acad. Sci. Fis. Mat.**, Napoli, 4(5), 1964.

BATISTA, R.C. **Lower Bound Estimates for Cylindrical Shell Buckling**. PhD Thesis, University College, Londres, 1979.

BAZANT, Z.P., CEDOLIN, L. **Stability of Structures**. Oxford Press, Oxford, 1991.

BOIVIN, N., PIERRE, C.; SHAW, S. W. Non-linear modal analysis of structural systems featuring internal resonances. **Journal of Sound and Vibration**, v. 182, n. 2, p. 336-341, 1995.

BRUBAK, L., HELLESLAND, J. Semi-Analytical Post buckling and Strength Analysis of Arbitrarily Stiffened Plates in Local and Global Bending. **Thin-Walled Structures**, v. 45, n. 6, p. 620-633, 2007.

BRUSH, D.O., ALMROTH, B.O. **Buckling of Bars, Plates and Shells.** MaGraw-Hill, New York, 1975.

BUDIANSKY, B. Theory of Buckling and Post-Buckling Behavior of Elastic Structures. **Advances in Applied Mechanics**, v. 14, Academic Press, 1974.

CHEN, H., YU, W. Post-Buckling and Mode Jumping Analysis of Composite Laminates Using an Asymptotically Correct, Geometrically Non-Linear Theory. **International Journal of Non-Linear Mechanics**, v. 41, n. 10, p. 1143-1160, 2006.

CHILVER, A.H. **The Elastic Stability of Structures.** In: Leipholz, H.H. Ed. Stability, Chapter 3, Solid Mechanics Division, University of Waterloo Press, Canadá, 1972.

CHILVER, A.H., JOHNS, K.C. Coupled modes of buckling in some continuous systems. **Proc. IUTAM Symposium on Instability of Continuous Systems**, Herrenalb, Springer, 1969.

CROLL, J.G., WALKER, A.C. **Elements of Structural Stability.** 1.ed. Macmillan, London, UK, 1972.

COWELL, R.G., HUNT G.W. Comparative Modeling of Compound Bifurcation of an Axially-Loaded Cylinder. **EUROMECH 200**, Hungray, p. 35-51, 1985.

DEL PRADO, Z.J.G.N. **Vibrações Não Lineares e Instabilidade Dinâmica de Estruturas Sujeitas a Interação Modal.** Proposta de Tese – PUC-Rio, Rio de Janeiro, 1999.

DEL PRADO, Z.J.G.N. **Acoplamento e Interação Modal na Instabilidade Dinâmica de Cascas Cilíndricas.** 193 p. Tese de Doutorado – PUC-Rio, Rio de Janeiro, 2001.

DINIS, P.B., CAMOTIM D., SILVESTRE, N. FEM-Based Analysis of the Local-Plate/Distortional Mode Interaction in Cold-Formed Steel Lipped Channel Columns. **Computers & Structures**, v. 85, n. 19-20, p. 1461-1474, 2007.

EL NASCHIE, M.S. **Stress, Stability and Chaos in Structural Engineering: an Energy Approach.** McGraw Hill, London, 1990.

GONÇALVES, P.B. **Interação Dinâmica Não-Linear entre Fluido e Cascas Delgadas.** Tese de Doutorado – COPPE/UFRJ, Rio de Janeiro, 1987.

GONÇALVES, P.B., DEL PRADO, Z.J.G.N. Low-Dimensional Galerkin Models for Nonlinear Vibration and Instability Analysis of Cylindrical Shells. **Nonlinear Dynamics**, v. 41, p. 129-145, 2005.

GONÇALVES, P.B., SILVA, F.M.A. and DEL PRADO, Z. J. G. N. Global Stability Analysis of Parametrically Excited Cylindrical Shells through the Evolution of Basin Boundaries. **Nonlinear Dynamics**, v. 50, n. 1-2, p. 121-145, 2007.

GREENWOOD, D.T. **Advanced Dynamics.** Cambridge University Press, Cambridge, UK, 2003.

GUCKENHEIMER, J., HOLMES, P. **Nonlinear Oscillations, Dynamical Systems and Bifurcations of Vector Fields.** Springer-Verlag, New York, USA, 1984.

HANSEN, J.S. Some Two-Mode Buckling Problems and Their relation to Catastrophe Theory. **AIAA Journal**, v. 15, n. 11, p. 1638, 1977.

HUNT, G.W., REAY, N.A., YOSHIMURA, T. Local Diffeomorphisms in the Bifurcational Manifestations of the Umbilic Catastrophes. **Proc. R. Soc. Lond., A**, v. 369, p. 47-65, 1979.

HUNT, G.W., WILLIAMS, K.A.J., COWELL, R.G. Hidden Symmetry Concepts in the Elastic Buckling of Axially-Loaded Cylinders. **International Journal of Solids and Structures**, v. 22, n. 12, p. 1501-1515, 1986.

HUTCHINSON, J.W. Plastic Buckling. **Advances in Applied Mechanics**, v. 14, Academic Press, 1974.

JIANG, D., PIERRE, C., SHAW, S. W. The Construction of Non-Ninear Normal Modes for Systems with Internal Resonance. **International Journal of Non-linear Mechanics**, v. 40, p. 729-746, 2005.

KIYMAZ, G. FE Based Mode Interaction Analysis of Thin-Walled Steel Box Columns Under Axial Compression. **Thin-Walled Structures**, v. 43, n. 7, p. 1051-1070, 2005.

KOITER, W.T. On the Stability of Elastic Equilibrium. **Nasa Report no TT-F-10833** (Translation of: Over Stabiliteit van het Elastische Evenwitch, Ph. D. Thesis, Delft, ND, 1945), 1967.

KOLAKOWSKI, Z. Some Aspects of Dynamic Interactive Buckling of Composite Columns. **Thin-Walled Structures**, In Press, Corrected Proof, 2007.

LANSBURY, A.N., THOMPSON, J.M.T., BASIN, H.B. Basin Erosion in the Twin-Well Duffing Oscillator: two Distinct Bifurcation Scenarios. **In. J. Bifurcation and Chaos**, Vol. 2, pp. 505-532, 1992.

LENCI, S., REGA, G. A Procedure for Reducing the Chaotic Response Region in an Impact Mechanical System. **Nonlinear Dynamics**, v 15, p. 391-409, 1998a.

LENCI, S., REGA, G. Controlling Nonlinear Dynamics in a two-well Impact System. Parts I e II. **International Journal of Bifurcation and Chaos**, v. 8, n. 12, p. 2387-2424, 1998b.

LENCI, S., REGA, G. Numerical Control of Impact Dynamics of Inverted Pendulum through Optimal Feedback Strategies. **Journal of Sound and Vibration**, v. 236, n. 3, p. 505-527, 2000.

LENCI, S., REGA, G. Optimal Control of Homoclinic Bifurcation: Theoretical Treatment and Practical Reduction of Safe Basin Erosion in the Helmholtz Oscillator. **Journal of Vibration and Control**, v. 9, p. 281-315, 2003a.

LENCI, S., REGA, G. Optimal Control of Nonregular Dynamics in a Duffing Oscillator. **Nonlinear Dynamics**, v. 33, p. 71-86, 2003b.

LENCI, S., REGA, G. Optimal Numerical Control of Single-Well to Cross-Well Chaos Transition in Mechanical Systems. **Chaos, Solitons & Fractals**, v. 15, n. 1, p. 173-186, 2003c.

LENCI, S., REGA, G. A Unified Control Framework of the Non-Regular Dynamics of Mechanical Oscillator. **Journal of Sound and Vibration**, v. 278, p. 1051-1080, 2004a.

LENCI, S., REGA, G. Global Optimal Control and System-Dependent Solutions in the Hardening Helmholtz–Duffing Oscillator. **Chaos, Solitons & Fractals**, v. 21, n. 5, p. 1031-1046, 2004b.

LENCI, S., REGA, G. Heteroclinic Bifurcations and Optimal Control in the Nonlinear Rocking Dynamics of Generic and Slender Rigid Blocks. **International Journal of Bifurcation and Chaos**, v. 15, n. 6, p. 1901-1918, 2005.

MANEVITCH, L.I., Description of localized normal modes in the chain of nonlinear coupled oscillators using complex variables. **Nonlinear Dynamics**, v. 25, p. 95-109, 2001.

MAZZILLI, C.E.N., BARACHO NETO, O.G.P. Evaluation of Non-Linear Modes for Finite-Element Models. **Computers & Structures**, v. 80, p. 957-965, 2002.

MELNIKOV, V.K. On the Stability of the Center for Time-Periodic Perturbations. **Trans. Moscow Math. Soc.**, v. 12, p. 1-56, 1963.

MEIROVITCH, L. **Elements of Vibration Analysis**. Mc-Graw-Hill, New York, USA, 1975.

MEIROVITCH, L. **Methods of Analytical Dynamics**. Dover, New York, USA, 2003.

MONTH, L. **On Approximate First Integrals of Hamiltonian Systems with an Application to Nonlinear Normal Modes in a two DOF Nonlinear Oscillator**. Ph.D. Thesis, Cornell University, 1979.

MONTH, L., RAND, R. An Application of the Poincare map to the Stability of Nonlinear Normal Modes. **J. Appl. Mech.**, v. 47, p. 645-651, 1980.

MOON, F.C. **Chaotic and Fractal Dynamics: an Introduction for Applied Scientists and Engineers**. Willey, New York, 1992.

NAYFEH, A. H. On Direct Methods for Constructing Nonlinear Normal Modes of Continuous Systems. **Journal of Vibration and Control**, v.1, p. 389-430, 1995.

NAYFEH, A.H., BALASHANDRAN, B. **Applied Nonlinear Dynamics**. John Wiley & Sons, Inc., New York, 1995.

PALIS JR, J., DE MELO, W. **Introdução aos Sistemas Dinâmicos**. Editora Edgard Blücher Ltda, 1978.

PIGNATARO, M., RIZZI, N., LUONGO, A. **Stability, Bifurcation and Postcritical Behaviour of Elastic Structures**. Elsevier Science Publishing Company Inc., New York, 1991.

QUIN, D.D., WILBER, J.P., CLEMONS, C.B., YOUNG, G.W., BULDUM, A. Buckling Instabilities in Coupled Nano-Layers. **International Journal of Non-Linear Mechanics**, v. 42, n. 4, p. 681-689, 2007.

RAFTOYIANNIS, I.G., KOUNADIS, A.N. Dynamic Buckling of 2-DOF Systems with Mode Interaction Under Step Loading. **International Journal of Non-Linear Mechanics**, v. 35, p. 531-542, 2000.

REGA, G., LENCI, S. Identifying, Evaluating and Controlling Dynamical Integrity Measures in Non-Linear Mechanical Oscillators. **Nonlinear Analysis**, v. 63, p. 902-914, 2005.

REGA, G., LENCI, S. Dynamical Integrity and Control of Nonlinear Mechanical Oscillators. **Journal of Vibration and Control**, v. 14, n. 1-2, p. 159-179, 2008.

ROSENBERG, R. M. On Normal Vibrations of a General Class of Nonlinear Dual-Mode Systems. **Transactions of the ASME. Journal of Applied Mechanics**, v. 28, p. 275-283, 1961.

ROSENBERG, R. M. The Normal Modes of Nonlinear n-degrees-of-freedom Systems. **Journal of Applied Mechanics**, v. 30, p. 7-14, 1962.

ROSENBERG, R. M. On Nonlinear Vibrations of Systems with many degrees-of-freedom. **Adv. Appl. Mech.**, v. 9, p. 155-242, 1966.

SANTEE, D.M. **Estudo do Acoplamento Modal, da Quebra de Simetria e das Distribuições de Energia na Perda de Instabilidade de Cascas Cilíndricas Sob a Ação de Cargas Combinadas**. Dissertação de Mestrado – PUC-Rio, Rio de Janeiro, 1988.

SHAW, S.W. The Suppression of Chaos in Periodically Forced Oscillators. **Nonlinear Dynamics in Engineering Systems, Proceedings IUTAM Symposium**, Stuttgart, Germany, 21-25 August 1989, W. Schiehlen, Springer-Verlag, Berlim, 1990.

SHAW, S.W.; PIERRE, C. Nonlinear Normal Modes and Invariant Manifold. **Journal of Sound and Vibration**, v.150, n. 1, p. 170-173, 1991.

SHAW, S.W., PIERRE, C. Normal Modes of Vibration for Non-Linear Continuous Systems. **Journal of Sound and Vibration**, v.169, n. 3, p. 319-347, 1994.

SHAW, S. W., PIERRE, C., PESHECK, E. Modal Analysis-Based Reduced-Order Models for Nonlinear Structures-An Invariant Manifold Approach. **The Shock and Vibration Digest**, v. 31, n. 1, p. 3-16, 1999.

SILVA, F.M.A. **Modelos de Dimensão Reduzida para Análise das Oscilações Não-Lineares e Estabilidade de Cascas Cilíndricas**. Tese de Doutorado – PUC-Rio, Rio de Janeiro, 2008.

SOLIMAN, M.S., GONÇALVES, P.B. Chaotic Behavior Resulting in Transient and Steady State Instabilities of Pressure-Loaded Shallow Spherical Shells. **Journal of Sound and Vibration**, v. 259, p. 497-512, 2003.

SOLIMAN, M.S., THOMPSON, J.M.T. Integrity Measures Quantifying the Erosion of Smooth and Fractal Basins of Attraction. **Journal of Sound and Vibration**, v. 135, p. 453-475, 1989.

SOLIMAN, M.S., THOMPSON, J.M.T. Global Dynamics Underlying Sharp Basin Erosion in Driven Oscillators. **Physical Review A**, v. 45, n.6, p. 3425-3431, 1992.

SOPHIANOPOULOS, D.S. Bifurcations and Catastrophes of a Two-Degrees-of-Freedom Nonlinear Model Simulation the Buckling and Postbuckling of Rectangular Plates. **Journal of the Franklin Institute**, v. 344, p. 463-488, 2007.

TENG, J.G., HONG, T. Postbuckling Analysis of Elastic Shells of Revolution Considering Mode Switching and Interaction. **International Journal of Solids and Structures**, v. 43, n. 3-4, p. 551-568, 2006.

THOMPSON, J.M.T. Chaotic Phenomena Triggering the Escape from a potential Well. **Proceedings of the Royal Society, London A** 421, p. 195-225, 1989.

THOMPSON, J.M.T., GASPAR, Z. A Buckling Model for the Set of Umbilic Catastrophes. **Math. Proc. Camb. Phil. Soc.**, v. 82, p. 497, 1977.

THOMPSON, J.M.T., HUNT, G.W. **A General Theory of Elastic Stability**. John Wiley and Sons, London, 1973.

THOMPSON, J.M.T., HUNT, G.W. **Elastic Instability Phenomena**. John Wiley and Sons, London, 1984.

THOMPSON, J.M.T., STEWART, H.B. **Nonlinear Dynamics and Chaos**. John Wiley and Sons, Chichester, 1987.

THOMPSON, J.M.T., STEWART, H.B. **Nonlinear Dynamics and Chaos. Geometrical Methods for Engineers and Scientists.** John Wiley and Sons, Great Britain, 1993.

TVERGAARD, V. Imperfection-Sensitivity of a Wide Integrally Stiffened Panel Under Compression. **Int. J. Solids Structures**, v. 9, p. 177-192, 1973.

VAKAKIS, A. F. **Analysis and Identification of linear and Nonlinear Normal Modes in Vibrating Systems.** 320 p. Ph. D. Thesis, California Institute of Technology, Pasadena, USA, 1991.

VAKAKIS, A. F. Nonlinear Normal Modes (NNMs) and their Applications in Vibration Theory: an Overview. **Mechanical Systems and Signal Processing**, v. 11, n. 1, p. 3-22, 1997.

WIGGINS, S. **Global Bifurcation and Chaos: Analytical Methods.** Springer, New York, Heidelberg, Berlin, 1988.

WIGGINS, S. **Introduction to Applied Nonlinear Dynamical Systems and Chaos.** Springer, New York, Heidelberg, Berlin, 1990.

YAMAKI, N. **Elastic Stability of Circular Cylindrical Shells.** Elsevier Science Publishers B. V., Netherlands, 1984.