

Veröffentlichungen 1996/1997

L. Gaul, D. Sachau, J. Lenz: *Active Damping of Space Structures by Contact Pressure Control in Joints*. Proceedings International Modal Analysis Conference IMAC XV Orlando/Florida, Vol. I, S. 202-208

L. Gaul, T. Someya, Y. Mihara, O. Mahrenholtz: *Entwicklung eines neuen Dünnschicht-Sensors zur Messung des Schmierfilmdruckes im Motorgleitlager*. MTZ Motorentechnische Zeitschrift, Friedrich Vieweg & Sohn, Wiesbaden, 58. Jahrgang, 1997, Nr. 2, S. 110 - 116 (auch in Verlegerbeilage "MTZ Worldwide" in englischer Sprache)

L. Gaul, M. Plenge, B. Verbic: *BE Prediction and Experimental Validation of Foundation Isolation by Underlying Plate*. Boundary Element Technology XII, Computational Mechanics Publications, Southampton, 1997, S. 451-459

L. Gaul, M. Wagner: *Beam Response Derived from a 3-D Hybrid Boundary Integral Method in Elastodynamics*. Mechanical Systems and Signal Processing, Vol. 11(2), 1997, S. 257-268

L. Gaul, P. Kohmann, D. Wittekind: *Minimization of Sound Transfer by Structural Optimization*. Theoretical and Applied Mechanics 1996, Proceedings of the XIXth International Congress of Theoretical and Applied Mechanics, Kyoto, Japan. Elsevier 1997, S. 285-302

L. Gaul, C.-Y. Hsu, C.-C. Lin: *Suppression of distributed dynamical deflection by piezoelectric materials for harmonic external loads*. Smart Structures and Integrated Systems. Ed. M. E. Regelbrugge. Proceeding of SPIE, Vol. 3041, 1997, S. 889-900

L. Gaul, M. Schanz: *Boundary Element Calculation of Transient Response of Viscoelastic Solids Based on Inverse Transformation*. Meccanica 32, Kluwer Academic Publishers, 1997, S. 171-178

L. Gaul, M. Schanz: *Calculation of Transient Response of Viscoelastic Unbounded Domains by Direct Boundary Element Method*. Proceedings IUTAM Symposium on Computational Methods for Unbounded Domains, University of Colorado at Boulder, 1997

L. Gaul: *Nonlinear Active Damping of Adaptive Space Structures*. Structural Health Monitoring, Current Status and Perspectives, Technomic Publishing Company, Lancaster, Ed. Fu-Kuo Chang, 1997, S. 208-219

L. Gaul, T. Someya, Y. Mihara, O. Mahrenholtz: *Measurements of oil film pressure in engine bearings*. Proceedings of the 15th International Modal Analysis Conference Japan, 1997, S. 131-136

L. Gaul, M. Schanz, B. Zastrau, W. Wenzel: *A Boundary Element Formulation for Generalized Viscoelastic Solids in Time Domain*. Proceedings of the Final

Conference of the Priority Programme 'Boundary Element Methods 1989-1995' of the German Research Foundation, Springer, Ed.: W. L. Wendland, 1997, S. 31-50

L. Gaul, C. Fiedler: *Methode der Randelemente in Statik und Dynamik*, Vieweg-Verlag Wiesbaden Braunschweig, 1997, 204 Seiten, ISBN 3.528-06781-0

L. Gaul, M. Wagner: *Formulation of Fluid-Structure-Interaction by Hybrid Boundary Integral Method*. Bericht 97/21, Universität Stuttgart, SFB 404, 1997

M. Hanss: *Enhanced fuzzy modeling using special membership functions and fuzzy rule bases*. Proceedings of the 3rd IFAC Symposium on Intelligent Components and Instruments for Control Applications - SICICA 1997, Annecy, France 1997, S. 561-566

M. Hanss: *Fuzzy-logic-based system modeling and its application to nonlinear process control*. Proc. of the 15th IMACS World Congress on Scientific Computation, Modelling and Applied Mathematics, Hrsg.: A. Sydow, Band 4 Wissenschaft & Technik Verlag, Berlin 1997, S. 431-436

M. Hanss: *On developing enhanced fuzzy models for nonlinear process control*. Proc. of the Annual Meeting of the North American Fuzzy Information Processing Society - NAFIPS 1997, Syracuse, NY, USA, 1997, S. 27-32

S. Hurlebaus, L. J. Jacobs, J. Jarzynski: *Optical Techniques to develop transfer functions to remove geometric features in acoustic emission signals*. Review in Progress in Quantitative Nondestructive Evaluation, Vol. 16, 1997

S. Hurlebaus, L. J. Jacobs, J. Jarzynski: *Laser Techniques to Characterize the Effect of Geometry on Acoustic Emission Signals*. Journal of Nondestructive Testing and Evaluation

L. Gaul, K. Willner, S. Hurlebaus: *Using the ESPI-Technique to Determine Material Properties of Plates*. Proceeding of the 4th International User Meeting of the ESPI-Technique, 1997, S. 1-6

S. Hurlebaus: *Experimental Techniques and Analytical Model to Remove Geometric Effects in a Fatigue Crack Specimen*. Structural Health Monitoring: Current Status and Perspectives, Technomic Publishing Company, Lancaster, Ed. Fu-Kuo Chang, 1997, S. 279-290

H. Liu: *Force distribution for the legs of a quadruped walking vehicle*. Journal of Robotic Systems, Vol. 14, Number 1, 1997, S. 1-8

L. Gaul, K. Willner: *Contact description by FEM based on interface physics*. Proceedings of Computational Plasticity V, Part 1, S. 884-891

K. Willner: *Elastoplastic contact of rough surfaces*. Computational Methods in Contact Mechanics III, S. 13-22

J. T.-S. Wang, H.-N. Pu, C.-C. Lin: *Buckling of Beam-Plates Having Multiple Delaminations*. Journal of Composite Materials, Vol. 31, No. 10/1997, S. 1002-1025

J. T.-S. Wang, C.-C. Lin: *Dynamic Analysis of Generally Supported Beams Using Fourier Series*. Journal of Sound and Vibration, 1996(3), S. 285-293

J. T.-S. Wang, C.-C. Lin: *Engineering analysis of buckling of delaminated beam plates*. Composite Structures, Vol. 34, 1996, S. 397-407

S.-H. Cheng, C.-C. Lin, J. T.-S. Wang: *Local Buckling of Delaminated Sandwich Beams Using Continuous Analysis*. International Journal of Solids Structures, Vol. 34, 1997, No. 2, S. 275-288