

Veröffentlichungen 1999/2000

L. Gaul, R. Nitsche: *Friction Control for Vibration Suppression*. Festschrift zum 65. Geburtstag von Professor Franz G. Kollmann, Fachbereich Maschinenbau, Technische Universität Darmstadt, Oktober 1999

L. Gaul, S. Hurlebaus: *Determination of the Impact Force on a Plate by Piezoelectric Film Sensors*. *Archive of Applied Mechanics* 69 (1999), S. 691-701

L. Gaul: *Soil-Structure Interaction - Generalization of Reissner's Solution for the Viscoelastic Halfspace (In memoriam Eric Reissner)*. *ZAMM* 80 (2000)

L. Gaul, U. Stöbener: *Active Structural Modal Control for the Floor Panel of a Car Body*. *Proceedings of International Modal Analysis Conference IMAC XVIII San Antonio, Texas, Volume I, 2000*, S. 153-159

L. Gaul, R. Nitsche: *Friction Control for Vibration Suppression*. *Academic Press: Mechanical Systems and Signal Processing, MSSP* (2000) 14(2), S. 139-150

L. Gaul, R. Nitsche: *Vibration Control by Interface Dissipation in Semi-Active Joints*. *ZAMM, Zeitschrift für angewandte Mathematik und Mechanik, Volume 80* (2000) 1, S. 45-48

L. Gaul, U. Stöbener: *Aktive Schwingungs- und Geräuschreduzierung an einer Autokaroserie*. *VDI Berichte Nr. 1550, 2000* (Experimentelle und rechnerische Modalanalyse sowie Identifikation dynamischer Systeme), S. 229-248

L. Gaul, H. Albrecht, J. Wirnitzer: *Schwingungsreduzierung in Leichtbaustrukturen durch Reibung*. *VDI Berichte Nr. 1550, 2000* (Experimentelle und rechnerische Modalanalyse sowie Identifikation dynamischer Systeme) S. 413-425

L. Gaul, S. Hurlebaus: *Application of PVDF-Films for Ultrasonic Testing*. *Proceedings of the COST F3 Conference on System Identification & Structural Health Monitoring, Madrid, 2000*, S. 571-580

L. Gaul, M. Wagner, W. Wenzel: *A Symmetric Hybrid Boundary Element Method for Acoustical Problems*. *Proceedings of the Seventh International Congress on Sound and Vibration Garmisch-Partenkirchen, Eds. Guidati, Hunt, Heller, Heiss, Volume 4*, S. 2029-2036

L. Gaul, U. Nackenhorst, B. Nolte: *Numerical Simulation of Noise Radiation from Rolling Tires*. *Multifield Problems - State of the Art, Section 5: Contact and Fracture, Springer-Verlag Berlin Heidelberg New York, Eds.: A.-M. Sändig, W. Schiehlen, W. L. Wendland*, S. 262-269

L. Gaul, M. Kögl: *A Dual Reciprocity Boundary Element Method for Dynamic Coupled Anisotropic Thermoelasticity*. Boundary Elements XXII, Eds.: C.A. Brebbia & H. Power, WIT Press, Southampton, 2000, S. 565-577

L. Gaul, U. Stöbener: *Technische Realisierung einer aktiven Geräuschreduzierung*. Tagungsband der 12. Arbeitstagung „Anwendungen der Akustik in der Wehrtechnik“, 2000, Hrsg. Bodo Nolte, S. 1-15

L. Gaul, U. Stöbener: *Active Vibration and Noise Control for the Interior of a Car Body by PVDF Actuator and Sensor Arrays*. Proceedings of Tenth International Conference on Adaptive Structures and Technologies, Eds.: R. Ohayon und M. Bernadou, Technomic Publishing Lancaster, 2000, S. 457-464

L. Gaul, U. Stöbener: *Control of Sound Radiation by Semi Active Acoustic Panels*. Proceedings of ACTIVE 99, Editor S. Douglas, Institute of Noise Control Engineering, 1999, S. 457-468

R. Bindel, R. Nitsche, R. Rothfuss, M. Zeitz: *Flacheitsbasierte Regelung eines Hydraulischen Antriebs mit zwei Ventilen für einen Großmanipulator*. at Automatisierungstechnik, 48(3): S. 124-131

J. R. Arruda, P. L. S. Alves, L. Gaul, S. Hurlebaus: *Power Flow Estimation Using Pulse ESPI*. 4th International Conference on Vibration Measurements by Laser Techniques

L. Gaul, H. Albrecht, J. Wirnitzer: *Vibration Suppression for Lightweight Space Structures Using Adaptive Joints*. Proceedings of the 10th Int. Conference on Adaptive Structures and Technologies (ICAST99), Paris, 1999, S. 111-118

J. Deans, M. Kögl: *The curing of powder coatings using gaseous infrared heaters: An analytical model to assess the process thermal efficiency*. International Journal of Thermal Sciences 39(7) 2000, S. 762-769

L. Gaul, M. Wagner, W. Wenzel: *Hybrid boundary element methods in frequency and time domain*. Boundary Elements in Acoustics, International Series on advances in Boundary Elements, Ed.: O. von Estorff, Southampton, 2000

A. Schmidt, S. Oexl, L. Gaul: *Modellierung des viskoelastischen Werkstoffverhaltens von Kunststoffen mit fractionalen Zeitableitungen*. 18th CAD-FEM Users' Meeting 2000 - International Congress on FEM-Technology, conference proceedings, Vol. 1, S. 1-10

M. Hanss, K. Willner: *A fuzzy arithmetical approach to the solution of finite element problems with uncertain parameters*. Mechanics Research Communications, 27, Nr. 3, S. 257-272

M. Hanss, A. Kistner: *Fuzzy-Methoden*. Schriftenreihe des Informatikbunds Stuttgart (IVS-Schriftenreihe) 2, Nr. 2 Softcomputing, Stuttgart 2000, S. 5-16

O. Nehls, M. Hanss: *Using fuzzy arithmetic to simulate the human glucose uptake with uncertain parameters*. Diabetes, Nutrition and Metabolism, 13, Nr. 4, 2000, S. 240

M. Hanss, K. Willner: *On using fuzzy arithmetic to solve problems with uncertain model parameter*. Proc. of the International Colloquium on Numerical Modelling of Uncertainties, Valenciennes, France, 1999, S. 85-92

M. Hanss: *A nearly strict fuzzy arithmetic for solving problems with uncertainties*. Proceedings of the 19th International Conference of the North American Fuzzy Information Processing Society - NAFIPS 2000, Atlanta, GA, USA, S. 439-443

M. Hanss, O. Nehls: *Simulation of the human glucose metabolism using fuzzy arithmetic*. Proceedings of the 19th International Conference of the North American Fuzzy Information Processing Society - NAFIPS 2000, Atlanta, GA, USA, S. 201-205

K. Willner: *Contact Laws for Rough Surfaces*. ZAMM 80 (2000), S. 73-76

M. Kögl, L. Gaul: *A Boundary Element Method for Transient Piezoelectric Analysis*. Engineering Analysis with Boundary Elements 24 (7-8), 2000, S. 591-598

A.P.S. Selvadurai: *Partial Differential Equations in Mechanics 1- Fundamentals, Laplace's Equation, Diffusion Equation, Wave Equation*. Springer Verlag Berlin, 2000

A.P.S. Selvadurai: *Partial Differential Equations in Mechanics 2- The Biharmonic Equation, Poisson's Equation*. Springer Verlag Berlin, 2000