

## Veröffentlichungen 1997/1998

L. Gaul, M. Wagner: *A new hybrid symmetric boundary element method in elastodynamics*. Integral methods in science and engineering (Vol. 2, approximation methods) Pitman Research Notes in Mathematic Series, Longman. Editors: C. Costanda, J. Saranen, S. Seikkala, 1997, S. 3 - 11

L. Gaul, J. Lenz: *Nonlinear dynamics of structures assembled by bolted joints*. Acta Mechanica (Dedicated to Franz Ziegler on the occasion of his 60th birthday). Special editors: H. Irschik, R. Heuer, F.G. Rammerstorfer. Springer-Verlag Wien, Vol. 125, No. 1 - 4, 1997, S. 169 - 181

L. Gaul, M. Plenge, B. Verbic: *Optoelectronic Measurement and Boundary Element Calculation of Vibration Isolation for Machine Foundations on Soil*. Proceedings of GAMM 96, Prague. ZAMM Volume 77, Supplement 2, 1997, S. 485 - 488

L. Gaul, M. Schanz: *Material Damping Formulations in Boundary Element Methods*. Proceedings 16th International Modal Analysis Conference, Santa Barbara, California 1998, S. 1420 - 1426

L. Gaul, C.-Y. Hsu, C.-C.Lin: *Shape Control of Composite Plates by Bonded Actuators with High Performance Configuration*. Journal of Reinforced Plastics and Composites, Vol. 16, No. 18/1997, S. 1692 - 1710

L. Gaul, R. Nitsche, D. Sachau: *Semi-Active Vibration Control of Flexible Structures*. Proceedings of the Euromech 373 Colloquium 'Modelling and Control of Adaptive Mechanical Structures', University of Magdeburg, ADAMES Preprint 1/1998, S. 217 - 226

L. Gaul, J. Lenz, D. Sachau: *Active Damping of Space Structures by Contact Pressure Control in Joints*. Mechanics of Structures and Machines - An International Journal. Editor: E. J. Haug, USA, Volume 26, No. 1, 1998, S. 81 -100

L. Gaul: *Description of Damping and Applications*. Proceedings of "Modal Analysis & Testing", NATO-Advanced Study Institute, Sesimbra, Portugal, 1998, S. 475 - 510

L. Gaul, U. Stöbener: *Active Control of Structures*. Proceedings of "Modal Analysis & Testing", NATO-Advanced Study Institute, Sesimbra, Portugal, 1998, S. 565 - 604

L. Gaul, N.A. Dumont, M. Noronha, M. Wagner, W. Wenzel, J. Wirnitzer: *On a Robust, Object-Oriented Code for the Implementation of Conventional and Hybrid Boundary Element Methods*. Proceedings of the 19th Southeastern Conference on Theoretical and Applied Mechanics "Developments in Theoretical and Applied Mechanics", Florida Atlantic University, Boca Raton, USA, Volume XIX, 1998, S. 151 - 158

L. Gaul, M. Wagner, W. Wenzel: *Efficient field point evaluation by combined direct and hybrid boundary element methods*. Engineering Analysis with Boundary Elements. Vol. 21, Elsevier Science Ltd., 1998, 215 - 222

L. Gaul, M. Wagner, W. Wenzel: *Efficient Domain Calculation in Direct Boundary Element Method*. Computational Mechanics Publications, Southampton and Boston, Boundary Elements XX, Eds. Kassab et al., International Series on Advances in Boundary Elements, Volume 4, S. 203 - 214

L. Gaul, W. Wenzel: *A Symmetric Boundary Element Formulation for Time-Domain Analyses of Acoustic Problems*. Euro Noise 1998 Designing for Silence München, Proceedings, Vol. I, 1998, S. 123 - 128

L. Gaul, M. Wagner: *Formulation of Fluid-Structure-Interaction by Hybrid Boundary Integral Method*. ZAMM, Vol. 78, Suppl. I 1998, S. 93 - 96

L. Gaul, B. Schweizer: *Analytische Berechnung der integralfreien Terme aus Somigliana-Identitäten*. ZAMM 78, 1998, 12, S. 823 - 832

M. Hanss, K. Willner, S. Guidati: *On Applying Fuzzy Arithmetic to Finite Element Problems*. Proceedings 17th Conference of the North American Fuzzy Information Processing Society (NAFIPS), 1998, S. 365 - 369

F. Moser, L. J. Jacobs, J. Qu: *Application of Finite Element Methods to Study Transient Wave Propagation in Elastic Wave Guides*. Proceedings of the 24th Annual Review of Progress in Quantitative Nondestructive Evaluation, San Diego, CA, Vol 17A, 1998, S. 161 - 167

S. Hurlebaus: *Erzeugung und Messung von Ultraschallwellen in elastischen Festkörpern durch berührungslose Verfahren*. Tagungsband des 5. Laser-Vibrometer Seminars, Waldbronn-Reichenbach, 1998, S. 1 - 12