

Publikationsliste
Dr.-Ing. Lars Panning
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1. Bode, A.; Panning, L.; Schröder, J. J.: **Growth and Collapse of Vapor Bubbles in Subcooled Boiling near the Region of Alternating Boiling Modes.** 11th Int. Heat Transfer Conf. 2, August 23-28, 1998, Kyongju, Korea.
2. Panning, L.; Sextro, W.; Popp, K.: **Optimization of Interblade Friction Damper Design.** ASME paper 2000-GT-541, Int. Gas Turbine & Aeroeng. Congress and Exh., München, 2000, S. 1-8.
3. Panning, L.; Sextro, W.; Popp, K.: **Schwingungsanalyse verstimmter Schaufelkränze mit Reibelementen.** Tagungsband Schwingungen in rotierenden Maschinen V, Wien, 2001, S. 297-306.
4. Popp, K.; Panning, L.: **Fügestellendämpfung – Effiziente Berechnungsverfahren für industrielle Anwendungen.** Universität Hannover. Messemitteilung Hannover-Messe Industrie 2001, p. 1.
5. Panning, L.; Sextro, W.; Popp, K.: **Vibrational Behaviour of Turbine Blade Assemblies with Friction Dampers.** Z. angew. Math. Mech., Berlin 81 (2001) Suppl. 2, S. 207-208.
6. Panning, L.; Sextro, W.; Popp, K.: **Spatial Dynamics of Tuned and Mistuned Bladed Disk Assemblies with Cylindrical and Wedge Shaped Friction Dampers.** Proc. of ISROMAC-9, The 9th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery, Paper DD-028, Honolulu, Hawaii, 2002, S. 1-10.
7. Panning, L.; Sextro, W.; Popp, K.: **Optimization of the Contact Geometry between Turbine Blades and Underplatform Dampers with Respect to Friction Damping.** ASME paper GT-2002-30429, Int. Gas Turbine & Aeroeng. Congress and Exh., Amsterdam, 2002, S. 1-12.
8. Sextro, W.; Panning, L.; Götting, F.; Popp, K.: **Fast Calculation of the Statistics of the Forced Response of Mistuned Bladed Disk Assemblies with Friction Contacts.** ASME paper GT-2002-30427, Int. Gas Turbine & Aeroeng. Congress and Exh., Amsterdam, 2002, S. 1-9.
9. Popp, K.; Panning, L.; Sextro, W.: **Vibration Damping by Friction Forces - Theory and Applications.** J. Vibration and Control (9)3-4, 2003, S. 419-448.
10. Götting, F.; Sextro, W.; Panning, L.; Popp, K.: **Schwingungsverhalten von verstimmten Beschauflungen mit Reibelementen.** Tagungsband Schwingungen in rotierenden Maschinen VI, Darmstadt, 2003, S. 201-209.
11. Panning, L.; Sextro, W.; Popp, K.: **Spatial Dynamics of Tuned and Mistuned Bladed Disks with Cylindrical and Wedge Shaped Friction Dampers.** Int J. of Rotating Machinery (9)3, 2003, S. 219-228.
12. Popp, K. ; Sextro, W.; Panning, L.; Götting, F.: **Mit Sicherheit bessere Maschinen bauen.** Unimagazin Hannover, 01/02 2003, Hannover, 2003, S. 28-32.
13. Panning, L.; Sextro, W.; Popp, K.: **Design of Friction Dampers for Mistuned Bladed Disks.** PAMM Proc. Appl. Math. Mech. (3) 1, 2003, S. 118-119.
14. Panning, L.; Sextro, W.; Popp, K.; Götting, F.; Kayser, A.; Wolter, I.: **Asymmetrical Underplatform Dampers in Gas Turbine Bladings: Theory and Application.** ASME paper GT2004-53316, Int. Gas Turbine & Aeroeng. Congress and Exh., Vienna, 2004, S. 1-12.
15. Götting, F.; Sextro, W.; Panning, L.; Popp, K.: **Systematic Mistuning of Bladed Disk Assemblies with Friction Contacts.** ASME paper GT2004-53310, Int. Gas Turbine &

Aeroeng. Congress and Exh., Vienna, 2004, S. 1-10.

16. Siewert, C.; Panning, L.; Popp, K.: **The Vibrational Behavior of Bladed Disks in Consideration of Friction Damping and Contact Elasticity.** PAMM Proc. Appl. Math. Mech. (5) 1, 2005, S. 131-132.
17. Panning, L.: **Auslegung von Reibelementen zur Schwingungsdämpfung von Turbinenschaufeln.** Diss., Düsseldorf: VDI-Fortschrittberichte Reihe 11, Nr. 328, 2005, S. 1-212.
18. Siewert, C.; Panning, L.; Schmidt-Fellner, A.; Kayser, A.: **The Estimation of the Contact Stiffness for Directly and Indirectly Coupled Turbine Blading.** ASME paper GT2006-90473, Int. Gas Turbine & Aeroeng. Congress and Exh., Barcelona, 2006, S. 1-13.
19. Genzo, A.; Sextro, W.; Panning, L.: **Dynamic Behaviour of Elastic Bodies Coupled by Extended Friction Contacts.** Proc. of the 12th International Conference on Noise and Vibration Engineering (ISMA), Leuven, 2006, S. 1303-1318.
20. Schedlinski, C.; Genzo, A.; Läer, B.; Panning, L.: **Modeling of Assembled Combustion Engine Parts under Consideration of Micro Slip Effects in the Connection Flanges.** Proc. of the 12th International Conference on Noise and Vibration Engineering (ISMA), Leuven, 2006, S. 1117-1130.
21. Panning, L.: **Symmetric and Asymmetric Underplatform Dampers for Turbine Blades.** PAMM Proc. Appl. Math. Mech. (6), 2006, S. 251-252.
22. Schmidt-Fellner, A.; Siewert, C.; Panning, L.: **Experimental Analysis of Shrouded Blades with Friction Contact.** PAMM Proc. Appl. Math. Mech. (6), 2006, S. 263-264.
23. Denkena, B.; Neuber, C.-C.; Kallage, F.; Panning, L.: **Aufbau und Regelung einer Magnetführung für Werkzeugmaschinen.** PAMM Proc. Appl. Math. Mech. (6), 2006, S. 801-802.
24. Kröger, M.; Panning, L.; Popp, K.; Klamt, K.: **Fügestellendämpfung.** VDI Wissensforum Schwingungsdämpfung, Stuttgart, 2006, S. 1-38.
25. Romberg, O.; Tausche, M.; Pereira, C.; Panning, L.: **Passive Damping of Spacecraft Sandwich Panels.** 10th European Conference on Spacecraft Structures, Materials & Mechanical Testing, Berlin, 2007, S.1-8
26. Denkena, B.; Deichmüller, M.; Kröger, M.; Panning, L.; Carstensen, C.; Kilian, S.: **Modeling and Simulation of the Process Machine Interaction During Tool Grinding Processes.** Proceedings of the 10th CIRP International Workshop on Modeling of Machining Operations, Reggio Calabria, 2007, S. 391-398
27. Panning, L.; Kröger, M.; Wallaschek, J.: **Schwingungsdämpfung durch Reibung: Theorie, Experiment, Anwendungen.** VDI-Tagung Schwingungsdämpfung (VDI-Berichte 2003), Wiesloch, 2007, S. 71-96
28. Genzo, A.; Sextro, W.; Panning, L.: **Schwingungsverhalten elastischer Körper mit nichtlinearen Kopplungen in ausgedehnten Reibkontakten.** VDI-Tagung Nichtlineare Schwingungen - Reibung und Kontaktmechanik (VDI-Berichte 2022), Kassel, 2007, S. 147-161
29. Panning, L., Kröger, M.: **Modellierung der Schwingungen beim Werkzeugschleifen.** PAMM Proc. Appl. Math. Mech. 7, 4050029–4050030, DOI 10.1002/pamm.200700845, 2007, S. 1-2.

30. Hohl, A., Panning, L., Siewert, C., Bürge, A.: **The Vibrational Behaviour of Bladed Disks with Multiple Coupling Devices**. PAMM Proc. Appl. Math. Mech. 7, 4040037–4040038 07, DOI 10.1002/pamm.200700724, 2007, S. 1-2.
31. Siewert, C., Panning, L., Hohl, A., Bürge, A., Gerber, C.: **Damping of Structural Vibrations using an Electromotive Eddy Current Damper**. PAMM Proc. Appl. Math. Mech. 7, 4040039–4040040, DOI 10.1002/pamm.200700739, 2007, S. 1-2.
32. Siewert, C.; Krack, M.; Panning, L., Wallaschek, J.: **The Nonlinear Analysis of the Multiharmonic Forced Response of Coupled Turbine Blading**. Proc. of ISROMAC-12, The 12th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery, Paper 219, Honolulu, Hawaii, 2008, S. 1-11.
33. Henke, M.; Guendogdu, Y.; Seume, J.; Siewert, C.; Panning, L.; Wallaschek, J.: **Unidirectional Coupled Aerodynamic and Structural Mechanic Analysis of a Turbine Blading**. Proc. of IMechE 9th Int. Conf. on Vibrations in Rotating Machinery, Exeter, 2008, S. 171-184.
34. Hohl, A.; Siewert, C.; Panning, L., Kayser, A.: **Nonlinear Vibration Analysis of Gas Turbine Bladings with Shroud Coupling**. ASME paper GT2008-50787, Int. Gas Turbine & Aeroeng. Congress and Exh., Berlin, 2008, S. 1-8.
35. Siewert, C.; Panning, L.; Gerber, C.; Masserey, P.-A.: **Numerical and Experimental Damping Prediction of a Nonlinearly Coupled Low Pressure Steam Turbine Blading**. ASME paper GT2008-51073, Int. Gas Turbine & Aeroeng. Congress and Exh., Berlin, 2008, S. 1-12.
36. Laborenz, J.; Siewert, C.; Panning, L.; Wallaschek, J.; Gerber, C.; Masserey, P.-A.: **Eddy Current Damping - A Concept Study For Steam Turbine Blading**. ASME paper GT2009-59593, Int. Gas Turbine & Aeroeng. Congress and Exh., Orlando, 2009, S. 1-10.
37. Siewert, C.; Panning, L.; Wallaschek, J.; Richter, C.: **Multiharmonic Forced Response Analysis of a Turbine Blading Coupled by Nonlinear Contact Forces**. ASME paper GT2009-59593, Int. Gas Turbine & Aeroeng. Congress and Exh., Orlando, 2009, S. 1-13.
38. Siewert, C.; Panning, L.; Wallaschek, J.: **Nonlinear Multiharmonic Vibrations of Coupled Turbine Bladings**. SIRM 2009 - 8th International Conference on Vibrations in Rotating Machines, Vienna, 2009, S. 1-13.
39. Hohl, A.; Siewert, C.; Panning, L.; Wallaschek, J.: **A Substructure Based Reduced Order Model for Mistuned Bladed Disks**. Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2009), paper DETC2009-87459, San Diego, 2009, S. 1-8
40. Hohl, A.; Neubauer, M.; Panning, L.; Wallaschek, J.: **Modelling of Shunted Piezoceramic Actuators with Substructure Techniques and Application to a Bladed Disk Model**. IEEE/ASME International Conference on Advanced Intelligent Mechatronics, Singapore, 2009, S. 1-6
41. Hohl, A.; Neubauer, M.; Schwarzendahl, S.M.; Panning, L.; Wallaschek, J.: **Active and semiactive Vibration Damping of Turbine Blades with Piezoceramics**. Proc. SPIE Smart Structures/NDE 2009, San Diego, 2009, S. 1-10