Iutam Symposium On Emerging Trends In Rotor Dynamics

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Foreword.- Preface.- List of speakers.- Rotordynamics Research: Current Interests and Future Directions, by R. Gordon Kirk.- OPTIMIZED LIFE USING FREQUENCY AND TIME DOMAIN APPROACHES, BY J. S. Rao.- Dynamic Modelling of Rotors: A Modal Approach, by G. Genta.- Evolution of Frequency-speed Diagram in Rotating Machinery, by Chong-Won Lee.- Developments in Rotor Dynamical Modeling of Hydropower Units, by J-O. Aidanp, R. K. Gustavsson, N. L. P. Lundstrm, M. Karlsson, Y. Calleecharan, M. L. Nsselqvist, M. Karlberg, U. Lundin.- Control-Oriented Approach to the Rotor Dynamics, by Zdzis aw GOSIEWSKI.- New Approach to the Analysis of the Dynamic Behavior of a Fluid Structure Interaction, by E. Malenovsk, F. Pochyly, L. Pohanka.- On the Analysis of Rotor-Bearing-Foundation Systems, by Katia Lucchesi Cavalca, Eduardo Paiva Okabe.- A Multiple Whirls Phenomenon and Heuristic Problems in Rotor-Bearing Systems, by J. Kici ski.- Experimental Decomposition of Vibration, Whirl and Waves in Rotating and Non-rotating Parts, by I. Bucher.- Rotating Internal Damping in the Case of Composite Shafts, by G. Jacquet-Richardet, E. Chatelet, T. Nouri-Baranger.- Unbalance Response Analysis of a Spinning Rotor Mounted on a Precessing Platform, by Ankuran Saha, Rajesh Ghosh, Arghya Nandi, Sumanta Neogy.- A Simple Viscoelastic model of Rotor-Shaft Systems, by J. K. Dutt.- Rotor Dynamic Analysis Using ANSYS, by M. Santhosh Kumar.- Vibration of Rotating Bladed Discs: Mistuning, Coriolis, and Robust Design, by D. J. Ewins, Y. J. Chan.- Modeling Geometric Mistuning of a Bladed Rotor: Modified Modal Domain Analysis, by Alok Sinha, Yasharth Bhartiya.- Trends in Controllable Oil Film Bearings, by Ilmar F. Santos.- Developments in Fluid Film Bearing Technology, by A. El-Shafei.- Numerical Model of the High Speed Rotors Supported on Variable Geometry Bearings, by Zbigniew Kozanecki, Jan Kici ski, Grzegorz ywica.- Effect of Unbalance on the Dynamic Response of a Flexible Rotor Supported on Porous Oil Journal Bearings, by S.K. Laha, S.K. Kakoty.- Analysis of Capillary Compensated Hole-Entry Hydrostatic/Hybrid Journal Bearing Operating with Micropolar Lubricant, by Suresh Verma, K.D. Gupta, Vijay Kumar.- Rotordynamic Analysis of Carbon Graphite Seals of a Steam Rotary Joint, by H. Hirani, S. S. Goilkar.- Applications and Research Topics for Active Magnetic Bearings, by Gerhard Schweitzer.- Accurate Analytical Determination of Electromagnetic Bearing Coefficients, by C.

Nataraj.- Sensitivity Analysis of the Design Parameters in Electrodynamic Bearings, by G. Genta, X. De Lepine, F. Impinna, J. Girardello, N. Amati, A. Tonoli.- Advanced Analysis and Optimization of Nonlinear Resonance Vibrations in Gas-Turbine Structures with Friction and Gaps, by E.P. Petrov.- Non-Parametric Identification of Rotor-Bearing System through Volterra-Wiener Theories, by Nalinaksh S. Vyas, Animesh Chatterjee.- Nonlinear Dynamics and Chaos of an Unbalanced Flexible Rotor Supported by Deep Groove Ball Bearings with Radial Internal Clearance, by T.C. Gupta, K. Gupta, D.K. Sehgal.- Bifurcation Analysis of a Turbocharger Rotor Supported by Floating Ring Bearings, by Aydin Boyaci, Wolfgang Seemann, Carsten Proppe.- Vibration Analysis of High Speed Rolling Element Bearings due to Race Defects, by S.H. Upadhyay, S.C. Jain, S.P. Harsha.- Beneficial Effects of Parametric Excitation in Rotor Systems, by Horst Ecker.- Simulation and Experiment of a Rotor with Unilateral Contacts and Active Elements, by Lucas Ginzinger, Heinz Ulbrich.- New Passive Control Methods for Reducing Vibrations of Rotors: Discontinuous Spring Characteristics and Ball Balancers, by Yukio Ishida.- Modeling and Diagnostics of Heavy Impeller Gyroscopic Rotor with Tilting Pad Journal Bearings, by V. Barzdaitis, M.Bogdevi ius, R.Did iokas, M.Vasylius.- A Mechanical Engine Simulator for Development of Aero Engine Failure Analysis Methods, by Robert Liebich.- Signal Processing Tools for Tracking the Size of a Spall in a Rolling EAN/ISBN : 9789400700208 Publisher(s): Springer, Berlin, Springer Science & Business Media Format: ePub/PDF Author(s): Gupta, K.

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