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Research Papers: Applications

Vibration and Acoustic Emission of Linear-Guideway Type Recirculating Ball Bearings With a Millimeter-Sized Artificial Defect in the Carriage

Hiroyuki Ohta, Kazuya Matsuura, Soichiro Kato and Yutaka Igarashi

J.

Tribol. 2009;132(1):011101-011101-6.
doi:10.1115/1.4000271.

Vertical Stiffnesses of Preloaded Linear Guideway Type Ball Bearings

Incorporating the Flexibility of the Carriage and Rail

Hiroyuki Ohta and Keisuke Tanaka

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doi:10.1115/1.4000277.

Recess Depth Optimization for Rotating, Annular, and Circular

Recess Hydrostatic Thrust Bearings

O. J. Bakker and R. A. J. van Ostayen

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Tribol. 2009;132(1):011103-011103-7.
doi:10.1115/1.4000545.

The Influence of Grooves on the Fully Wetted and Aerated Flow

Between Open Clutch Plates

Chinar R. Aphale, William W. Schultz and Steven L. Ceccio

J.

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Research Papers: Biotribology

Lubrication of the Human Ankle

Joint in Walking

Miroslav Hlaváček

J.

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doi:10.1115/1.4000278.

Research Papers: Contact Mechanics

A Contact Stiffness Model of

Machined Plane Joint Based on Fractal Theory

Shuyun Jiang, Yunjian Zheng and Hua Zhu

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011401-7.
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Research Papers: Elastohydrodynamic
Lubrication

A Transient Mixed Elastohydrodynamic Lubrication Model for Spur Gear Pairs

S. Li and A. Kahraman

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Research Papers: Friction & Wear

on Friction by Tip Test

Ki-Ho Jung, Hyun-Chul Lee, Joseph S. Ajiboye, Seong-Hoon Kang and Yong-Taek Im

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Research Papers: Hydrodynamic Lubrication

Thermohydrodynamic Model Predictions and Performance Measurements of Bump-Type Foil Bearing for Oil-Free Turboshaft Engines in Rotorcraft Propulsion Systems

Tae Ho Kim and Luis San Andrés

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Research Papers: On the Behavior of Misaligned
Journal Bearings Based on Mass-

Conservative Thermohydrodynamic Analysis

J. Y. Jang and M. M. Khonsari

J. Tribol. 2009;132(1):011702-011702-13.
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Research Papers: Stabilization Method for Small-Bore
Journal Bearings Utilizing

Starved Lubrication

Hiromu Hashimoto and Masayuki Ochiai

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Research Papers: Thermohydrodynamic Lubrication
Analysis of Misaligned Plain Journal

Bearing With Rough Surface

Jun Sun, Mei Deng, Yonghong Fu and Changlin Gui

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Research Papers: Lubricants

A Model for Lubrication by Oil-in-Water Emulsions

Sy-Wei Lo, Tzu-Chun Yang, Yong-An Cian and Kuo-Cheng Huang

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Research Papers: Magnetic Storage

Numerical Investigation of Bouncing Vibrations of an Air Bearing Slider in Near or Partial Contact

Du Chen and David B. Bogy

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Research Papers: Mixed and Boundary Lubrication

On the Modeling of Quasi-Steady and Unsteady Dynamic Friction in Sliding Lubricated Line Contact

H. Sojoudi and M. M. Khonsari

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doi:10.1115/1.4000272.

On the Behavior of Friction in Lubricated Point Contact With

Provision for Surface Roughness

H. Sojoudi and M. M. Khonsari

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Technical Briefs

Analysis of Single-Grooved Slider and Journal Bearing With Partial Slip Surface

T. V. V. L. N. Rao

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A New Analytic Approximation for the Hydrodynamic Forces in

Finite-Length Journal Bearings

Yaser Bastani and Marcio de Queiroz

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Discussions

Discussion: "A Deterministic-Chaos Study of Electron Triboemission Outputs" (, , and , 2007, ASME J. Tribol., 129(3), pp. 679–683)

H. A. Abdel-Aal

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