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Research Papers

Modeling and Theory of Intermittent Motions in a Machine Tool With a Friction Boundary

Brandon C. Gegg, Steve C. S. Suh and Albert C. J. Luo

J. Manuf. Sci.

Eng. 2010;132(4):041001-041001-9.
doi:10.1115/1.4001643.

Shape Memory Alloys

Andrew J. Birnbaum and Y. Lawrence Yao

J. Manuf. Sci.

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Considering Circular Cross-Section and Strain Hardening Materials

C. J. Luis Pérez and R. Luri

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Ball-End Milling of Curved Geometries Based on Tool Motion Analysis

Guo Dongming, Ren Fei and Sun Yuwen

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Effects of Melt Flow Fronts on Premolded Component Deformation During In-Mold Assembly of Mesoscale Revolute Joints

A. Ananthanarayanan, S. K. Gupta and H. A. Bruck

The Effects of Laser Forming on NiTi Superelastic

Upper Bound Analysis of the ECAE Process by

An Approach to Modeling Cutting Forces in Five-Axis

AWJ Milling of Gamma Titanium Aluminide

Modeling and Characterization to Minimize

J. Manuf. Sci. Eng. 2010;132(4):041006-041006-9.
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Precision Grindability of Granite in Relation to Discrete Distribution Parameters of Microhardness and Microbrittleness

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Two-Zone Proportional Hazard Model for Equipment

Remaining Useful Life Prediction

Ming-Yi You, Lin Li, Guang Meng and Jun Ni

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Characterization of Morphology and Mechanical

Properties of Glass Interior Irradiated by Femtosecond Laser

Panjawat Kongsuwan, Hongliang Wang, Sinisa Vukelic and Y. Lawrence Yao

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Effect of Compliance and Travel Angle on Friction Stir

Welding With Gaps

Edward F. Shultz, Edward G. Cole, Christopher B. Smith, Michael R. Zinn, Nicola J. Ferrier and Frank E. Pfefferkorn

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The Influence of Processing Parameters on the Mechanical

Properties of Selectively Laser Melted Stainless Steel Microlattice Structures

S. Tsopanos, R. A. W. Mines, S. McKown, Y. Shen, W. J. Cantwell, W. Brooks and C. J. Sutcliffe

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An Experimental Study on Cutting Forces in the

Threading and the Side Cut Turning With Coated and Uncoated Grades

Firat Kafkas

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Developments of Multistep Inverse Finite Element Method

and Its Application in Formability Prediction of Multistage Sheet Metal Forming

Bingtao Tang, Yunjiang Li and Xiaoyang Lu

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Variation Analysis and

Robust Fixture Design of a Flexible Fixturing System for Sheet Metal Assembly

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Quality and Inspection of
Machining Operations: Tool

Condition Monitoring

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Height Control in Laser
Cladding Using Adaptive

Sliding Mode Technique: Theory and Experiment

Meysar Zeinali and Amir Khajepour

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A Model for Bending,
Torsional, and Axial

Vibrations of Micro- and Macro-Drills Including Actual Drill Geometry—Part I: Model Development and Numerical Solution

Sinan Filiz and O. Burak Ozdoganlar

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A Model for Bending,
Torsional, and Axial

Vibrations of Micro- and Macro-Drills Including Actual Drill Geometry—Part II: Model Validation and Application

Sinan Filiz and O. Burak Ozdoganlar

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