
**Titles of Papers Published in the
Transactions of the Korean Society of Mechanical
Engineers
(Vol. 31, No. 1, 2007)**

〈**Materials and Fracture · CAE and Applied Mechanics · Dynamics and Control · Production
and Design Engineering · Reliability Divisions**〉

〈**Original Papers**〉

- Design Guidance of Jig/Fixture for Flexible Manufacturing System Chul Kyun Shin
Theoretical Analysis and Experimental Characterization of DoD Metal-jet System
..... Taik-Min Le, Tae Goo Kang, Jeong-Soon Yang, Jeong-Dai Jo, Kwang-Young Kim,
Byung-Oh Choi and Dong-Soo Kim
- Nonlinear Adaptive Control for Linear Motor Through the Estimation of Friction Forces and
Force Ripples Hongbin Kim, Byonghuae Lee, Sangoh Han and Kunsoo Huh
- Reliability Optimization of Urban Transit Brake System for Efficient Maintenance
..... Chul-Ho Bae, Hyun-Jun Kim, Jung-Hwan Lee, Se-Hoon Kim,
Ho-Yong Lee and Myung-Won Suh
- Mechanical Design, Fabrication and Test of a Biomimetic Fish Robot using LIPCA as an Artificial
Muscle Seok Heo, T.Wiguna, Nam Seo Goo and Hoon Cheol Park
- Optimal Coil Configuration Design Methodology Using the Concept of Equivalent Magnetizing
Current Woochul Kim, Min Tae Kim and Yoon Young Kim
- Fabrication of Nickel Nano and Microstructures by Redeposition Phenomena in Ion Etching
Process Phill Gu Jung, Sung Jin Hwang, Sang Min Lee and Jong Soo Ko
- Candidate Points and Representative Cross-Validation Approach for Sequential Sampling
..... Seung Won Kim, Jae Jun Jung and Tae Hee Lee
- Axiomatic Design of a Micromanipulator using Displacement Amplifier
.....
Seog-young Han, Sang-jun Yoon, Jun-seong Hwang, Min-sue Kim, Jae-yong Park, Byung-ju
Yi and Seon-jung Kim
- Estimation of Fracture Resistance Curves of Nuclear Materials using Small Punch Specimen
..... Yoon-Suk Chang, Jong-Min Kim, Jae-Boong Choi, Young-Jin Kim,
Min-Chul Kim and Bong-Sang Lee
- Decoupling Process of a Coupled Design in Axiomatic Design Using the TRIZ
..... Gwang-Seob Shin, Yong-Il Kim and Gyung-Jin Park
- Elastic Analysis of an Unbounded Elastic Solid with an Inclusion Considering Composite Fiber
Volume Fraction Jung-Ki Lee and Hui-duck Han
- Vibration Design of a Rigid Body Supported by Orthogonal Springs
..... Seon Jun Jang, Jun Ho Lee and Yong Je Choi
- Integration of Shell FEA with Geometric Modeling based on NURBS Surface Representaion
..... Jinbok Choi, Hee-Yuel Roh and Maenghyo Cho
- A Study on Robust Design Optimization of Layered Plates Bonding Process Considering Uncer-
tainties Woo-Hyuk Lee, Jung-Jin Park, Joo-Ho Choi and Soo-Yong Lee

- A Coupled Analysis of Smart Plate under Electro-Mechanical Loading Using Enhanced Lower-Order Shear Deformation Theory Jinho Oh, Maenghyo Cho and Jun-Sik Kim
- Modified Sensitivity Control of a Semi-Active Suspension System with MR-Damper for Ride Comfort Improvement Tae-Shik Kim, Keum-Shik Hong, Rae-Kwan Kim, Jae-Woo Park and Chang-Do Huh

〈**Technical Paper**〉

- Improvement of the Carbon Nanotube Tip by Focused Ion Beam and Its Performance Evaluation Young-Hyun Shin, Yu-Hwan Yoon, Eung-Sug Lee, Chang-Soo Han
- List of Refrees for Papers Published in 2006 KSME Editorial

〈**Thermal Engineering · Fluid Engineering · Energy and Power Engineering Divisions**〉

〈**Original Papers**〉

- A Study on Experiment and Numerical Analysis for Disclosing Shell Wall Thinning of a Feedwater Heater Kyung Hoon Kim, Woo Lee and Kyeong Mo Hwang
- An Experimental Investigation of Jet Impingement Cooling Using the Vortex Tube Woon-Chul Shin, Chang-Soo Kim and Shin-Chul Bae
- Fluid Flow and Convective Heat Transfer Characteristics of Al₂O₃ Nanofluids Kyo Sik Hwang, Ji-Hwan Lee, Byeong Ho Lee and Seok Pil Jang
- Numerical Analysis on the Effect of Wall Shear Stress Around the Ring Drug-Eluting Stent Taewon Seo and Abdul Barakat
- Second-Moment Closure Modelling of Particle-Laden Homogeneous Turbulent Shear Flows Jong Keun Shin, Jeong Sik Seo, Seong Ho Han and Young Don Choi
- Compressibility Factor Effect on the Turbulence Heat Transfer of Super-critical Carbon Dioxide by an Elliptic-blending Second Moment Closure Han Seong Ho, Choi young Don, Seo jeong Sik and Shin Jung Kun
- Numerical Simulation of Hydro-Acoustic Flow in Piezo Inkjet Print Head You-Seop Lee, Sang Kwon Wee, Se Young Oh and Jae Woo Chung
- Study on Composite Cathode for YSZ Electrolyte in SOFC Changbo Lee and Joongmyeon Bae
- A Three-Dimensional Numerical Simulation of Rotating Stall in an Axial Compressor Minsuk Choi, Je Hyun Baek, Seong Hwan Oh and Dock Jong Ki
- Effects of Bleed Flow and Angled Ribs on Heat Transfer Distributions in a Rotating Square Channel Suk Hwan Park, Yun Heung Jeon, Kyung Min Kim, Dong Hyun Lee and Hyung Hee Cho
- Effects of Channel Rotation and Bleed Flow on Heat/Mass Transfer Characteristics in a 90° Ribbed Square Channel Suk Hwan Park, Yun Heung Jeon, Kyung Min Kim, Dong Hyun Lee and Hyung Hee Cho
- An Empirical Correlation of Refrigerant Flow Rate Through Coiled Capillary Tubes Chasik Park, Yonghee Jang, Yongchan Kim and YoungSoo Lee
- The Effect of Residence Time and Heat Loss on NO_x Formation Characteristics in the Downstream Region of CH₄/Air Premixed Flame Cheol-Hong Hwang, Sung-Ho Hyun, Young-Jo Tak and Chang-Eon Lee
- List of Referees for Papers Published in 2006 KSME Editorial