

**Titles of Papers Published in the
Transactions of the Korean Society of Mechanical
Engineers
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〈**Materials and Fracture · CAE and Applied Mechanics · Dynamics and Control · Production
and Design Engineering Divisions**〉

〈**Original Papers**〉

- Control of Processing Conditions for Improvement of Vibration Characteristics of Injection
Molded Disk Hyo-Chol Sin and Ji-Geun Nam
- A Magnetic Suspension Stage Based on the Switched Reluctance Propulsion Principle
..... SangHeon Lee
- Modeling of a Pneumatic Cylinder Position Control System Considering Transfer Characteristics
of a Transmission Line Bo-Sik Kang, Chang-Seop Song,
Sang-Won Ji and Ji-Seong Jang
- In-situ Measurement of Plastic Zone Developed during Ductile Fracture Process
..... Jung-Hyun Back, Do-Hyung Kim and Ki-Ju Kang
- Locomotions of a Biped Robot : Static vs. Dynamic Gaits Seungchul Lim and Inhwan Ko
- Fabrication of Metallic Sandwich Plates with Inner Dimpled Shell Structure and Static Bending
Test Dae-Yong Seong, Chang Gyun Jung, Seok-Joon Yoon, Dong-Yol Yang,
Sang-Hoon Lee and Dong-Gyu Ahn
- Performance Test and Finite Element Analysis of Pneumatic Muscle Actuator
..... Shin Huh, Sang-kyu Bae, Dong-soo Kim, Wan-doo Kim and Sung In Hong
- Dynamic Material Property of the Sinter-Forged Cu-Cr Alloys with the Variation of Chrome
Content Jung-Han Song and Hoon Huh
- 5-Axis Tool Path Generation from Offset Polyhedral Mesh ... Su-Jin Kim and Min-Yang Yang
- Development of a Prototype New Electric Power Steering (EPS) System Jeonghoon Song
- Sequential Feasible Domain Sampling of Kriging Metamodel by Using Penalty Function
..... Tae Hee Lee, Jun Yeob Seong and Jae Jun Jung
- Electrode Shape Optimization of Piezo Sensors Using Genetic Algorithm
..... Kimoon Lee, Hyun Chul Park and Chul Hue Park
- Subdomain-Based Finite Element Method for Thermomechanical Analysis with Thermal Radia-
tion Eui Sup Shin and Ji Man Jin
- Monitoring of Micro-Drill Wear by Using the Machine Vision System
..... Young-Jo Choi and Sung-Chong Chung
- A Simulation Method for Bone Growth Using Design Space Optimization
..... In Gwun Jang and Byung Man Kwak

〈**Technical Papers**〉

- Improvement of Sound Quality for the Vehicle HVAC System Using Optimum Layout of Damping Material Jae-Eung Oh, Dong-Kun Hwang, Sang-Gil Park, Tae-Kun Yoon, Hyoun-Jin Sim and Jung-Youn Lee
- A Study on the Development and Performance Test of the Paddle-type Fluidized Dryer Sung-Min Kum, Kwang-Cheol Lee, Min-Seog Kong, Byung-Hun Yoo, Hyun-Gu Lee and Chang-Eon Lee

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

〈**Original Papers**〉

- Development of Small Size Coriolis Mass Flowmeter Ki Won Lim and Ji, Jueng-Keun
- Effects of Duct Aspect Ratios on Pressure Drop in a Rotating Two-Pass Duct Kyung Min Kim, Dong Hyun Lee and Hyung Hee Cho
- A Study on the Prediction of Plate Temperature in Indirectly-Fired Continuous Heat Treatment Furnace Young-Deuk Kim, Deok-Hong Kang and Woo-Seung Kim
- An Experimental Study on Shape Oscillation Mode of a Pendant Droplet by an Acoustic Wave Byung Ha Kang, Jong Hoon Moon and Ho-Young Kim
- A Study of Thermal Performances for Micro Gas Sensor Youngcheol Joo and Chang Kyo Kim
- An Experimental Study on the Combustion and Emission Characteristics According to the Variation of Compression Ratio and Intake Temperature Using Stratified Charge Compression Ignition in a Gasoline Direct Injection Engine Changhee Lee, Kihyung Lee and Kyoungbin Lim
- Fluid Flow Characteristics of Al₂O₃ Nanoparticles Suspended in Water Ji-Hwan Lee and Seok Pil Jang
- A Study on Nozzle Flow and Spray Characteristics of Piezo Injector for Next Generation High Response Injection Jinwook Lee and Kyoungdoug Min
- A New Mechanism for Enhanced Heat Transport of Nanofluid Donggeun Lee and Jae-Won Kim
- Development of a Nonlinear Ekman Pumping Model Yong Kweon Suh and Jae Hyun Park
- Numerical Study of the Thermal Effects on the Centrifugal Instability Jong-Yeon Hwang, Kyung-Soo Yang, Innocent Mutabazi, Sungsu Lee and Dong-Hyeog Yoon
- Local Heat Transfer Measurements and Numerical Analysis in the Ventilated Disc Brake with Semi-Cylindrical Grooves Dae Hee Lee, Sung Bong Park, Chang Yul Lim, Heung Seop Kim and Kwan Soo Lee

〈**Technical Paper**〉

- Optimal Design of High Temperature Vacuum Furnace Using Thermal Analysis Database Zhen-Zhe Li, Mee-Young Park, Jae-Woo Lee, Yung-Hwan Byun and Changjin Lee