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## Published Papers

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### A. Mechanical System Engineering

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<b>A1</b> Development of Laser Brazing Technique of Fe-base Superalloy Using Ag-Pd Filler Metal	K.Shinozaki A.Kanata M.Yoshida M.Shirai	Proceeding of IIW, Doc, <b>XII</b> (2003) pp. 1740
<b>A2</b> Obsevation of type IV cracking in weld joints of high chromium ferritic heat resistant steels	K.Shinozaki Dejun Li H.Kuroki H.Harada K.Ohishi T.Sato	Science and Technology of Welding and Joining, <b>8</b> , 4 (2003) pp. 289-295
<b>A3</b> Analysis of factores affecting type IV cracking in welded joints of high chromium ferritic heat resistant steels	Dejun Li K.Shinozaki H.Kuroki H.Harada K.Ohishi	Science and Technology of Welding and Joining, <b>8</b> , 4 (2003) pp. 296-302
<b>A4</b> Stress-strain analysis of creep deterioration in heat affected weld zone in high Cr ferritic heat resistant ateel	Dejun Li K.Shinozaki H.Kuroki	Materials Science and Technology, <b>19</b> , 9 (2003) pp. 1253-1260
<b>A5</b> Oxidation behavior of the SiC fiber reinforced SiO <sub>2</sub> -mullite composites	M.Yoshida K.Nagahisa Y.Shimojo G.Sasaki	International conference on Composite Materials (ICCM-14), (2003) pp. 169-170
<b>A6</b> Prediction of liquation Crack Initiation at HAZ of Laser Weldment Based on Strain Analysis at Elevated Temperature	Kitamura Mitsuru Hassan Maher Shinozaki Kenji Yamamoto Motomichi Takata Atsushi Shirai Makoto	Proceedings of the Seventeenth Asian-Pacific Technical Exchange and Advisory Meeting on Marine Structures, (2003) pp. 287-296
<b>A7</b> Fabrication and mechanical properties of carbon fiber reinforced magnesium alloy composite by squeeze casting	T.Matsunaga M.Yoshida G.Sasaki T.Hatayama K.Shinozaki	Proceedings of the 8th Japan International SAMPE Symposium, (2003) pp. 773-776
<b>A8</b> Influence of Inclusion Size and Its Distribution on the Mechanical Property and Their Reliabilities of Aluminum Alloy Squeeze Castings	KIMURA Ryosuke YOSHIDA Makoto SASAKI Gen SHINOZAKI Kenji FUJII Toshio FUYAMA Nobuyuki FUKUNAGA Hideharu	Proceedings of The 8th Asian Foundry Congress, (2003) pp. 266-275
<b>A9</b> Design and m anufacture of an impact-electric current dischargejoining machine	K. Matsugi M. Konishi O. Yanagisawa M. Komatsu	Materials Science and Engineering, <b>A350</b> , 1-2 (2003) pp. 195-201
<b>A10</b> A case study for production of perfectly sintered complex compactsin rapid consolidation by spark sintering	K. Matsugi H. Kuramoto O.Yanagisawa M. Kiritani	Materials Science and Engineering, <b>A354</b> , 1-2 (2003) pp. 234-242
<b>A11</b> Temperature distribution at steady state under constant current discharge in spark sintering process of Ti and Al <sub>2</sub> O <sub>3</sub> powders	K. Matsugi H. Kuramoto T. Hatayama O. Yanagisawa	J. Materials Processing Technology, <b>134</b> , 2 (2003) pp. 225-232
<b>A12</b> Application of electric discharge process in joining aluminum and stainless steel sheets	K. Matsugi Y. Wang T. Hatayama O. Yanagisawa K. Syakagohri	J. Materials Processing Technology, <b>135</b> , 1 (2003) pp. 75-82

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<b>A13</b> Visualized modeling of compo casting processing for magnesium alloy composites	G. Sasaki K. Matsugi O. Yanagisawa N. Fuyama T. Fujii	Proc. of 14th Int. Conf. on Composite Materials (ICCM-14), (2003)
<b>A14</b> Preparation of cast steels with high-toughness and -strength	K. Matsugi G. Sasaki O. Yanagisawa	Proc. 1st Korea-Japan Conf. for Young Foundry Engineers, (2003) pp. 145-148
<b>A15</b> Influence of fiber surface structure on interfacial reaction of carbon fiber reinforced aluminum matrix composites	K. Chang J. Pan K. Matsugi G. Sasaki O. Yanagisawa	Proc. 8th Japan Int. SAMPE Symp, (2003) pp. 813-816
<b>A16</b> Mechanical Properties and Microstructure of Magnesium Alloy Composites Prepared by Compo-casting	G. Sasaki M. Yoshida O. Yanagisawa N. Fuyama T. Fujii	Mat. Sci. Forum, <b>419</b> , 422 (2003) pp. 777-782
<b>A17</b> Spark discharge and high-speed impact treatment of turbostratic CN <sub>x</sub> powder	D.C. Li D.L. Yu J.L. He S.M. Liu Y.J. Tian O. Yanagisawa M. Kiritani	Materials Science and Engineering, <b>A350</b> (2003) pp. 190-194
<b>A18</b> Material Mechanical Properties and Microstructure of Magnesium Alloy Matrix Composites Fabricated by Casting Process	G. Sasaki	Mat. Sci. Forum, <b>426</b> , 432 (2003) pp. 2015-2020
<b>A19</b> Mechanical Properties and Fatigue Crack Growth Behavior of Whisker Reinforced AC4CH Composites Containing Inorganic Binder	Y.B. Choi G. Sasaki W. J. Park	Proc. of 8th Japan Int'l SAMPE Sympo, (2003) pp. 797-800
<b>A20</b> Processing of Aluminum Alloy Matrix Composites and Its Application for Automobile Parts	G. Sasaki	Proc. of 8th Japan Int'l SAMPE Sympo, (2003) pp. 805-808
<b>A21</b> Observation of particle behavior in copper powder compact during pulsed electric discharge	O. Yanagisawa H. Kuramoto K. Matsugi M. Komatsu	Materials Science and Engineering A, <b>A350</b> , 1-2 (2003) pp. 184-189
<b>A22</b> Development of robust MHD code	Nobuhiro Nishino	Journal of Plasma and Fusion Research Series, 6 (2003)
<b>A23</b> High-speed imaging of edge turbulence in NSTX	S.J. Zweben R.J. Maqueda D.P. Stotler A. Keesee J. Boedo C.E. Bush S.M. Kaye B. LeBlanc J.L. Lowrance V.J. Mastrocola R. Manigi N. Nishino G. Renda D.W. Swain J.B. Wilgen NSTX team	Nuclear Fusion, 44 (2003)
<b>A24</b> Evaluation of Mechanical Properties of Alumina via the Property/Microstructure Diagram	Hiroyuki Y. Suzuki Hidenori Kuroki	Science of Sintering: Current Problems and New Trends, Edited by M. M. Ristic, Serbian Academy of Science and Arts, Beograd, (2003) pp. 29-36

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<b>A25</b> Improvement of Densification in Solid State Sintering by Efficient Packing of Fine Powders with Narrow Size Distribution using High Centrifugal Force	Hiroyuki Y. Suzuki Kenji Shinozaki Hidenori Kuroki	P/M Science & Technology Briefs, <b>5</b> , 3 (2003) pp. 22-28
<b>A26</b> Colloidal Compaction of Fine Metallic Powders under High-speed Centrifugal Force -Compaction and Sintering of High Speed Steel-	Hiroyuki Y. Suzuki Masato Fukuda Hidenori Kuroki	J. Jpn. Soc. Powder Powder Metallurgy, <b>50</b> , 11 (2003) pp. 856-864
<b>A27</b> Diffusion Bonding of Iron and Iron-Copper Powder Compacts	Hidenori Kuroki	Advances in Powder Metallurgy & Particulate Materials -2003, Proceedings of the 2003 International Conference on Powder Metallurgy & Particulate Materials, June 8-12, Las Vegas, NV, USA, (2003) pp. 5/203-5/213
<b>A28</b> Cryo-transfer TEM study of vacancy cluster formation in thin films of aluminum and copper elongated at low temperature	I. Mukouda Y. Shimomura M. Kiritani	Materials Science & Engineering A, <b>350</b> (2003) pp. 37-43
<b>A29</b> Computer Simulation Study of the Atomistic Mechanism of Deformation and Fracture Initiation in Thin FCC Metal Films	Y. Shimomura M. Kiritani I. Mukouda	Materials Science & Engineering A, <b>350</b> (2003) pp. 238-244
<b>A30</b> Formation of Vacancy Clusters in Deformed Thin Film of Al-Mg and Al-Cu Dilute Alloys	H. Ohkubo Y. Shimomura I. Mukouda K. Sugio M. Kiritani	Materials Science & Engineering A, <b>350</b> (2003) pp. 30-36
<b>A31</b> POSITRON LIFETIME STUDIES OF DEFECTS IN LOW-TEMPERATURE NEUTRON-IRRADIATED Si	Hiroshi Fukushima	Proceedings of the 3rd International Workshop on Positron Studies of Semiconductor Defects, (2003) pp. 155-161
<b>A32</b> Molecular Dynamics Studies of Crystallization and Grain Boundary Formation in Silicon	Kenjiro Sugio Hiroshi Fukushima	Solid State Phenomena, <b>93</b> (2003) pp. 381-386
<b>A33</b> Reaction engineering model for supercritical water oxidation of phenol catalyzed by activated carbon	Tepei Nunoura Geunhee Lee Yukihiko Matsumura Kazuo Yamamoto	Ind. Eng. Chem. Res., <b>42</b> , 15 (2003) pp. 3522-3531
<b>A34</b> Effect of carbonaceous materials on the oxidation of phenol in supercritical water; A preliminary study	Tepei Nunoura Geunhee Lee Yukihiko Matsumura Kazuo Yamamoto	Ind. Eng. Chem. Res., <b>42</b> , 16 (2003) pp. 3718-3720
<b>A35</b> Biomass gasification in supercritical water with partial oxidation	Yukihiko Matsumura Masaki Harada Dayin Li Hiroshi Komiyama Yoshikuni Yoshida Hisashi Ishitani	J. Jpn. Inst. Energy, <b>82</b> , 12 (2003) pp. 919-925
<b>A36</b> Comprehensive comparison of efficiency and CO <sub>2</sub> emissions between biomass energy conversion technologies—position of supercritical water gasification in biomass technologies	Yoshikuni Yoshida Kiyoshi Dowaki Yukihiko Matsumura Ryuji Matsuhashi Dayin Li Hisashi Ishitani Hiroshi Komiyama	Biomass and Bioenergy, <b>25</b> , 3 (2003) pp. 257-272
<b>A37</b> Effect of heating rate of biomass feedstocks on supercritical water gasification characteristics	Kyoko Nagata Masaki Harada Yukihiko Matsumura Yoshihiro Kikuchi Ronghou Liu	Proc. 8th Japan-China Symp. on Coal and C1 Chemistry, (2003) pp. 133-134
<b>A38</b> Feasibility study on glycerol gasification process in supercritical water fluidized bed reactor	Yukihiko Matsumura Tomoaki Minowa	Proc. 8th Japan-China Symp. on Coal and C1 Chemistry, (2003) pp. 219-220

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<b>A40</b> Analytical estimation of performance parameters of an ideal pulse detonation engine	T. Endo T. Fujiwara	Transactions of the Japan Society for Aeronautical and Space Sciences, <b>45</b> , 150 (2003) pp. 249-254
<b>A41</b> Wall-Thickness Dependence of Cooling-Induced Deformation of Polystyrene Spherical Shells	T. Endo N. Kobayashi K. Goto M. Yasuda Y. Fujima	Fusion Science and Technology, <b>43</b> , 3 (2003) pp. 270-274
<b>A42</b> Pressure History at the Thrust Wall of a Simplified Pulse Detonation Engine	T. Endo J. Kasahara Y. Tanahashi T. Numata A. Matsuo S. Sato T. Fujiwara	Proceedings of the 19th International Colloquium on the Dynamics of Explosions and Reactive Systems, (2003)
<b>A43</b> Experimental Studies on L/D Ratio and Heat Transfer in Pulse Detonation Engines	J. Kasahara Y. Tanahashi T. Numata A. Matsuo T. Endo	Proceedings of the 19th International Colloquium on the Dynamics of Explosions and Reactive Systems, (2003)
<b>A44</b> Performance Analysis of the Multiple Tube Pulse Detonation Rocket Engine	S. Sato A. Matsuo J. Kasahara T. Endo	Proceedings of the 19th International Colloquium on the Dynamics of Explosions and Reactive Systems, (2003)
<b>A45</b> The effects of the dilution gas for the properties of acceleration and combustion on the thermal choking ram accelerator	T. Yatsufusa S. Taki	Proceedings of the 19th International Colloquium on the Dynamics of Explosions and Reactive Systems, (2003)
<b>A46</b> Initiation of gasoline-air mixture with PDE initiator	T. Yatsufusa S. Taki	Proceedings of the 19th International Colloquium on the Dynamics of Explosions and Reactive Systems, (2003)
<b>A47</b> Temperatures of Positively and Negatively Stretched Flames	Kazuhiro Yamamoto Satoru Ishizuka	JSME International Journal, Series B, <b>46</b> , 1 (2003) pp. 198-205
<b>A48</b> Vortex Ring Combustion in an Atmosphere of the Same Mixture as the Combustible	Satoru Ishizuka Mio Ikeda Kazuhiro Kameda	Proceedings of the Combustion Institute, <b>29</b> (2003) pp. 1705-1712
<b>A49</b> Characterization of Droplets and Vapor Concentration Distributions in Split-Injection Diesel Sprays by Processing UV and Visible Images	Yuyin Zhang Tomoaki Ito Keiya Nishida	JSME International Journal, Series B, <b>46</b> , 1 (2003) pp. 100-108
<b>A50</b> Vapor/Liquid Behaviors in Split-Injection D.I. Diesel Sprays in a 2-D Model Combustion Chamber	Yuyin Zhang Keiya Nishida	SAE Paper , <b>2003</b> , 2003-01-1837 (2003) pp. 1-12
<b>A51</b> Spray Characteristics of Group-hole Nozzle for D.I. Diesel Engine	Yuyin Zhang Keiya Nishida Shinsuke Nomura Tomoaki Ito	SAE Paper, <b>2003</b> , 2003-01-3115 (2003) pp. 1-9
<b>A52</b> Characterization of Mixture Formation Processes in D.I. Gasoline Sprays by the Laser Absorption Scattering (LAS) Technique -Effects of Injection Conditions-	Tie Li Masahisa Yamakawa Daisuke Takaki Keiya Nishida Yuyin Zhang Hiroyuki Hiroyasu	SAE Paper, <b>2003</b> , 2003-01-1811 (2003) pp. 1-10
<b>A53</b> Insight on Early Spray Formation Process of a High-Pressure Swirl Injector for DISI Engines	Jeekuen Lee Keiya Nishida	SAE Paper, <b>2003</b> , 2003-01-1809 (2003) pp. 1-14

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<b>A55</b> Measurement of Ambient Air Motion of D.I. Gasoline Spray by LIF-PIV	Masahisa Yamakawa Seiji Isshiki Takuo Yoshizaki Keiya Nishida	JSME International Journal, Series B, <b>46</b> , 1 (2003) pp. 25-30
<b>A56</b> Breakup Process of an Initial Spray Injected by a D.I. Gasoline Injector - Simultaneous Measurement of Droplet Size and Velocity by Laser Sheet Image Processing and Particle Tracking Technique-	Jeekuen Lee Keiya Nishida	SAE Paper, <b>2003</b> , 2003-01-3107 (2003) pp. 1-23
<b>A57</b> Characterization of Mixture Formation Processes in DI Gasoline Engine Sprays with Split Injection Strategy via Laser Absorption and Scattering (LAS) Technique	Tie Li Yuyin Zhang Keiya Nishida Hiroyuki Hiroyasu	SAE Paper, <b>2003</b> , 2003-01-3161 (2003)
<b>A58</b> Atomization Characteristics of Multi-Hole Swirl Injectors for Direct Injection Engines -Observation of Spray Behavior and Calculation of Injector Internal Flow-	Keiya Nishida Haiyan Miao Mitsuhiro Kawamoto	CD-ROM Proceedings of Ninth International Conference on Liquid Atomization and Spray Systems, ICLASS 2003, 14-1 (2003) pp. 1-8
<b>A59</b> Spray and Mixture Formation Processes by High-Pressure Swirl Injector for DISI Engines -Analyses Based on Laser Absorption Scattering (LAS) Measurements-	Tie Li Masahisa Yamakawa Keiya Nishida Daisuke Takaki Yuyin Zhang Hiroyuki Hiroyasu	CD-ROM Proceedings of Ninth International Conference on Liquid Atomization and Spray Systems, ICLASS 2003, 14-22 (2003) pp. 1-8
<b>A60</b> Analyses of Pre-Swirl Spray Formation and Its Breakup Processes of D.I. Gasoline Spray	Jeekuen Lee Keiya Nishida	CD-ROM Proceedings of Ninth International Conference on Liquid Atomization and Spray Systems, ICLASS 2003, 14-20 (2003) pp. 1-8
<b>A61</b> An Investigation of the Breakup Mechanisms for Swirl Sprays from High-Pressure Swirl Injectors	Christos Chryssakis Dennis Assanis Jeekuen Lee Keiya Nishida	CD-ROM Proceedings of Ninth International Conference on Liquid Atomization and Spray Systems, ICLASS 2003, 14-1 (2003) pp. 1-8
<b>A62</b> Effects of Injection Splitting on Mixture Properties of Fuel Spray Injected by High Pressure Swirl Injector for DISI Engines	Tie Li Keiya Nishida Yuyin Zhang Hiroyuki Hiroyasu	Proceedings of the 8th Annual Conference on Liquid Atomization and Spray Systems - Asia, ICLASS-Asia, (2003) pp. 57-64
<b>A63</b> Effects of Annealing on Photoluminescence of ZnO Thin Film Prepared by Vapor Phase Growth	Ji Chen Toshiaki Fujita	Jpn. J. Appl. Phys., <b>42</b> , 2A (2003) pp. 602-606
<b>A64</b> Photoluminescence from ZnO Thin Films Prepared by Vapor Phase Growth	Toshiaki Fujita Ji Chen Daigo Kawaguchi	Jpn. J. Appl. Phys., <b>42</b> , 7B (2003) pp. L834-L836
<b>A65</b> High-density metastable helium atoms produced by Penning-type discharges	P X. Feng D. Andruczyk B W. James K. Takiyama S. Namba T. Oda	Plasma Sources Sci. Technol., <b>12</b> , 2 (2003) pp. 142-147

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<b>A67</b> High-Sensitive LIF Measurements of Electric Field Perpendicular to Magnetic Field in Plasmas	K. Takiyama S. Namba S. Furukawa T. Oda T. Ohgo B. W. James D. Andruczyk	Proc. 11th Int. Sympo. Laser-Aided Plasma Diagnostics, (2003)
<b>A68</b> Potential Profiles in the Central Core of the Cathode in the Star Mode Operation in Inertial-Electrostatic Fusion Neutron Source	K. Yoshikawa K. Masuda H. Toku A. Nagafuchi T. Mizutani H. Hashimoto A. Nagasaki Y. Yamamoto K. Takiyama M. Ohnishi H. Matsuura K. Funakoshi Y. Nakao	IAEA Fusion Energy 2002(19th Conference Proceedings, Lyon, France), (2003) pp. EX/P1-20
<b>A69</b> Structure of amorphized C60 films studied by Raman spectroscopy and X-ray photoelectron spectroscopy	Ryosuke Ookawa Katsumi Takahiro Kiyoshi Kawatsura Fumitaka Nishiyama Shunya Yamamoto Hiroshi Naramoto	Nucl. Instr. and Meth. in Phys. Res., <b>B206</b> (2003) pp. 175-178
<b>A70</b> Surface morphology of glassy carbon irradiated with nitrogen ions	Katsumi Takahiro Ryosuke Ookawa Fumitaka Nishiyama Shinji Nagata Shunya Yamamoto Kazumasa Narumi Hiroshi Naramoto Masaya Iwaki	Nucl. Instr. and Meth. in Phys. Res., <b>B206</b> (2003) pp. 206-210
<b>A71</b> Improvement in surface roughness of nitrogen-implanted glassy carbon by hydrogen doping	Katsumi Takahiro Ryosuke Ookawa Kiyoshi Kawatsura Shinji Nagata Fumitaka Nishiyama Shunya Yamamoto Kazumasa Narumi Hiroshi Naramoto Masaya Iwaki	Diamond and Related Materials, <b>12</b> (2003) pp. 1362-1367
<b>A72</b> Structural Characterization of GaAs <sub>1-x</sub> Bi <sub>x</sub> Alloy by Rutherford Backscattering Spectroscopy Combined with the Channeling Technique	Katsumi Takahiro Kiyoshi Kawatsura Kunishige Oe Fumitaka Nishiyama	Journal of ELECTRONIC MATERIALS, <b>32</b> , 1 (2003) pp. 34-37



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<b>A74</b> Conversion electron measurement in the $\beta^-$ -decay of $^{151}\text{Pr}$	Y. Kojima M. Shibata A. Taniguchi T. Hanafusa E. Yoshida K. Shizuma Y. Kawase S. Yamada	European Physical Journal A, <b>16</b> (2003) pp. 331-336
<b>A75</b> Microdosimetry of neutron field for Boron Neutron Capture Therapy at Kyoto University Reactor	S. Endo Y. Onizuka M. Ishikawa M. Takada Y. Sakurai T. Kobayashi M. Hoshi K. Shizuma	Jpn. J. Med. Phys., <b>23</b> (2003) pp. 170-173
<b>A76</b> Energy-dependent RBE of neutrons to induce micronuclei in root-tip cells of Allium cepa onion irradiated as dry dormant seeds and seedlings	W. Zhang K. Fujikawa S. Endo M. Ishikawa M. Ohtaki H. Ikeda M. Hoshi	J. Radiat. Res., <b>44</b> (2003) pp. 171-177
<b>A77</b> Development of Thermal Neutron Monitor in real-time for Boron Neutron Capture Therapy	M. Ishikawa H. Unesaki T. Kobayashi Y. Sakurai K. Tanaka S. Endo M. Hoshi	Jpn. j. Med. Phys., <b>23</b> (2003) pp. 174-176
<b>A78</b> Measurement of residual $^{152}\text{Eu}$ activity induced by atomic bomb neutrons in Nagasaki and the contribution of environmental neutrons to this activity	K. Shizuma S. Endo M. Hoshi J. Takada M. Ishikawa K. Iwatani H. Hasai T. Oka S. Fujita T. Watanabe T. Yamashita T. Imanaka	J. Radiat. Res., <b>44</b> (2003) pp. 133-139
<b>A79</b> Finite-Element Nonlinear Dynamics of Flexible Structures in Three Dimensions	Shingo Okamoto Yuki Omura	Computer Modeling in Engineering & Sciences, <b>4</b> , 2 (2003) pp. 287-299
<b>A80</b> Fracture Mechanism of Cemented Carbide Tips Held in Bits for Excavation: 1st Report, Effect of Tip Shapes on Mechanism and Modes of Fracture	Shingo Okamoto Akio Okamoto	International Conference on Computational & Experimental Engineering & Sciences, (2003)
<b>A81</b> Fracture Mechanism of Cemented Carbide Tips Held in Bits for Excavation: 2nd Report, Mechanical Properties of WC-Co Cemented Carbide	Shingo Okamoto Akio Okamoto Shuzo Fujii	International Conference on Computational & Experimental Engineering & Sciences, (2003)

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<b>A83</b> Computational simulation of patterning process of martensite in TRIP steel by crystal plasticity FEM with cellular automata approach	Takeshi Iwamoto Shinji Kubo	Dislocations, plasticity and metal forming, Proc. Plasticity 2003, (2003) pp. 220-222
<b>A84</b> Experimental Study of the Sound Field in Water Generated from a Vibrating Plate with Flexural Traveling Waves	Noritoshi Nakagawa Jun Satonobu Takao Ito	Proc. The 32nd International Congress and Exposition on Noise Control Engineering, (2003)
<b>A85</b> Diagnosis of ball bearing based on chaos analysis	Yasuhisa Sekiguchi Noritoshi Nakagawa	Proc. of Asia-Pacific Vibration Conference 2003, <b>1</b> (2003) pp. 629-634
<b>A86</b> Traveling wave ultrasonic motor using the bolt-clamped Langevin transducers	Jun Satonobu Masahiro Fukami Noritoshi Nakagawa	Proc. of Asia-Pacific Vibration Conference 2003, <b>1</b> (2003) pp. 623-628
<b>A87</b> Traveling wave ultrasonic motor by using a flexural composite transducer	Jun Satonobu Masahiro Fukami Noritoshi Nakagawa	Japanese Journal of Applied Physics, <b>42</b> , 5B (2003) pp. 3007-3011
<b>A88</b> A single-element tuning fork piezo-electric linear actuator	James R. Friend Jun Satonobu Kentaro Nakamura Sadayuki Ueha Daniel S. Stutts	IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, <b>50</b> , 2 (2003) pp. 179-186
<b>A89</b> Tooth Root Stress and Tooth Contact Stress of the Modified Cycloid Helical Gear	Florin Gabriel Tutulan Kazuteru Nagamura Kiyotaka Ikejo	Proceedings of DETC'03 ASME 2003 Design Engineering Technical Conferences and Computers and Information in Engineering Conference, 9th International Power Transmission and Gearing Conference (Chicago, Illinois USA), ASME Paper No. DETC2003/PTG-48012 (2003)
<b>A90</b> Power Loss of Spur Gear Drive Lubricated with Traction Oil	Kiyotaka Ikejo Kazuteru Nagamura	Proceedings of DETC'03 ASME 2003 Design Engineering Technical Conferences and Computers and Information in Engineering Conference, 9th International Power Transmission and Gearing Conference (Chicago, Illinois USA), ASME Paper No. DETC2003/PTG-48130 (2003)
<b>A91</b> Visualization Study of Oscillatory Entrance Flow in Curved Pipes	Masaru Sumida	CD-ROM Proceedings of 7th Asian Symposium on Visualization, (2003)
<b>A92</b> Curvature Effects in the Curved Duct for the Compressible Viscous Flow with Heat Transfer	Kougen Ozaki Hiroshi Maekawa	Proceedings of ASME Fluid Engineering Conference, <b>FEDSM3003</b> , 45634 (2003)
<b>A93</b> An overview of the machinability of aeroengine alloys	E.O. Ezugwu J. Bonney Y. Yamane	Journal of Materials Processing Technology, 134 (2003)
<b>A94</b> Development of a Simulator for Scraing Operation and a Simulation of Fitting of Three surfaces	Tadanori Sugino Yasuo Yamane Kei Sumimoto Norihiko Narutaki	Proceedings of International Conference on Leading Edge Manufacturing in 21st Century, (2003) pp. 833-836
<b>A95</b> Inspection of Bow and Deformation of Printed Circuit Board Using Patterned Panel Light Source	Tadanori Sugino Yasuo Yamane Tatsuro Ishizaki Norihiko Narutaki	Proceedings of the International Conference on Agile Manufacturing, Advance in Agile Manufacturing, (2003) pp. 393-398
<b>A96</b> 3D Dead Reckoning Based on Decentralized Filter for Modular Vehicle	Masafumi Hashimoto Yuichi Ishida Masato Fujita Fuminori Oba	Proceeding of 6th Japan-France Congress on Mechatronics, (2003) pp. 453-485

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<b>A98</b> Experiments of Bi-directional AGV Routing and Ttraffic Control in a Ddynamic Job Shop Sscheduling Environment	Toru Eguchi Fuminori Oba Satoru Toyoda Hironori Matsuoka	Proceedings of 6th Japan-France Congress on Mechatronics and 4th Asia-Europe Congress on Mecha-tronics, (2003) pp. 107-112
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<b>A102</b> Design of a Static Anti-windup Compensator that Optimizes L2 Performance: An LMI Based Approach	Nobutaka Wada Masami Saeki	Proc. of the 2003 IEEE Interna-tional Conference on Robotics and Automation, (2003) pp. 2628-2633
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