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Published Papers

A. Mechanical System Engineering

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A1 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, XII (2003) pp. 1740
A2 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, 8 , 4 (2003) pp. 289-295
A3 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, 8 , 4 (2003) pp. 296-302
A4 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, 19 , 9 (2003) pp. 1253-1260
A5 Oxidation behavior of the SiC fiber reinforced SiO ₂ -mullite composites	M.Yoshida K.Nagahisa Y.Shimojo G.Sasaki	International conference on Composite Materials (ICCM-14), (2003) pp. 169-170
A6 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
A7 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
A8 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
A9 Design and manufacture of an impact-electric current dischargejoining machine	K. Matsugi M. Konishi O. Yanagisawa M. Komatsu	Materials Science and Engineering, A350 , 1-2 (2003) pp. 195-201
A10 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, A354 , 1-2 (2003) pp. 234-242
A11 Temperature distribution at steady state under constant current discharge in spark sintering process of Ti and Al ₂ O ₃ powders	K. Matsugi H. Kuramoto T. Hatayama O. Yanagisawa	J. Materials Processing Technology, 134 , 2 (2003) pp. 225-232
A12 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, 135 , 1 (2003) pp. 75-82

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A13 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)
A14 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
A15 Influence of fiber surface structure on interfacial reaction of carbon fiber reinforced aluminum matrix com		

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A25 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, 5 , 3 (2003) pp. 22-28
A26 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, 50 , 11 (2003) pp. 856-864
A27 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
A28 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, 350 (2003) pp. 37-43
A29 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, 350 (2003) pp. 238-244
A30 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, 350 (2003) pp. 30-36
A31 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
A32 Molecular Dynamics Studies of Crystallization and Grain Boundary Formation in Silicon	Kenjiro Sugio Hiroshi Fukushima	Solid State Phenomena, 93 (2003) pp. 381-386
A33 Reaction engineering model for supercritical water oxidation of phenol catalyzed by activated carbon	Teppei Nunoura Geunhee Lee Yukihiko Matsumura Kazuo Yamamoto	Ind. Eng. Chem. Res., 42 , 15 (2003) pp. 3522-3531
A34 Effect of carbonaceous materials on the oxidation of phenol in supercritical water; A preliminary study	Teppei Nunoura Geunhee Lee Yukihiko Matsumura Kazuo Yamamoto	Ind. Eng. Chem. Res., 42 , 16 (2003) pp. 3718-3720
A35 Biomass gasification in supercritical water with partial oxidation	Yukihiko Matsumura Masaki Harada Dayin Li Hiroshi Komiyama Yoshikuni Yoshida Hisashi Ishitani	J. Jpn. Inst. Energy, 82 , 12 (2003) pp. 919-925
A36 Comprehensive comparison of efficiency and CO ₂ 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, 25 , 3 (2003) pp. 257-272
A37 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
A38 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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A39 Report on the 40th Heat Transfer Symposium of Japan	Yoshihiro Kikuchi	Thermal Science and Engineering, 11 , 4 (2003) pp. 1
A40 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, 45 , 150 (2003) pp. 249-254
A41 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, 43 , 3 (2003) pp. 270-274
A42 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)
A43 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)
A44 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)
A45 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)
A46 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)
A47 Temperatures of Positively and Negatively Stretched Flames	Kazuhiro Yamamoto Satoru Ishizuka	JSME International Journal, Series B, 46 , 1 (2003) pp. 198-205
A48 Vortex Ring Combustion in an Atmosphere of the Same Mixture as the Combustible	Satoru Ishizuka Mio Ikeda Kazuhiro Kameda	Proceedings of the Combustion Institute, 29 (2003) pp. 1705-1712
A49 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, 46 , 1 (2003) pp. 100-108
A50 Vapor/Liquid Behaviors in Split-Injection D.I. Diesel Sprays in a 2-D Model Combustion Chamber	Yuyin Zhang Keiya Nishida	SAE Paper , 2003 , 2003-01-1837 (2003) pp. 1-12
A51 Spray Characteristics of Group-hole Nozzle for D.I. Diesel Engine	Yuyin Zhang Keiya Nishida Shinsuke Nomura Tomoaki Ito	SAE Paper, 2003 , 2003-01-3115 (2003) pp. 1-9
A52 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, 2003 , 2003-01-1811 (2003) pp. 1-10
A53 Insight on Early Spray Formation Process of a High-Pressure Swirl Injector for DISI Engines	Jeekuen Lee Keiya Nishida	SAE Paper, 2003 , 2003-01-1809 (2003) pp. 1-14

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A54 Simultaneous Flow Field Measurement of D.I. Gasoline Spray and Entrained Ambient Air by LIF-PIV Technique	Jeekuen Lee Keiya Nishida	SAE Paper, 2003 , 2003-01-1115 (2003) pp. 1-15
A55 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, 46 , 1 (2003) pp. 25-30
A56 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, 2003 , 2003-01-3107 (2003) pp. 1-23
A57 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, 2003 , 2003-01-3161 (2003)
A58 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
A59 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
A60 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
A61 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
A62 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
A63 Effects of Annealing on Photoluminescence of ZnO Thin Film Prepared by Vapor Phase Growth	Ji Chen Toshiaki Fujita	Jpn. J. Appl. Phys., 42 , 2A (2003) pp. 602-606
A64 Photoluminescence from ZnO Thin Films Prepared by Vapor Phase Growth	Toshiaki Fujita Ji Chen Daigo Kawaguchi	Jpn. J. Appl. Phys., 42 , 7B (2003) pp. L834-L836
A65 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., 12 , 2 (2003) pp. 142-147

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A66 High resolution measurements of the Ha line shape in LHD plasma	H. Kawazome K. Kondo K. Ida K. Takiyama M. Goto S. Morita N. Tamura N. Ohyabu S. Sudo The LHD experimental Group	J. Nucl. Mater., 313-316 (2003) pp. 716-719
A67 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)
A68 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
A69 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., B206 (2003) pp. 175-178
A70 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., B206 (2003) pp. 206-210
A71 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, 12 (2003) pp. 1362-1367
A72 Structural Characterization of GaAs _{1-x} Bi _x Alloy by Rutherford Backscattering Spectroscopy Combined with the Channeling Technique	Katsumi Takahiro Kiyoshi Kawatsura Kunishige Oe Fumitaka Nishiyama	Journal of ELECTRONIC MATERIALS, 32 , 1 (2003) pp. 34-37

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A73 Identification of the new isotope ^{241}Bk	M. Asai K. Tsukada S. Ichikawa M. Sakama H. Haba Y. Nagame I. Nishinaka K. Akiyama A. Toyoshima T. Kaneko Y. Oura Y. Kojima M. Shibata	European Physical Journal A, 16 (2003) pp. 17-19
A74 Conversion electron measurement in the β^- -decay of ^{151}Pr	Y. Kojima M. Shibata A. Taniguchi T. Hanafusa E. Yoshida K. Shizuma Y. Kawase S. Yamada	European Physical Journal A, 16 (2003) pp. 331-336
A75 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., 23 (2003) pp. 170-173
A76 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., 44 (2003) pp. 171-177
A77 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., 23 (2003) pp. 174-176
A78 Measurement of residual ^{152}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., 44 (2003) pp. 133-139
A79 Finite-Element Nonlinear Dynamics of Flexible Structures in Three Dimensions	Shingo Okamoto Yuki Omura	Computer Modeling in Engineering & Sciences, 4 , 2 (2003) pp. 287-299
A80 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)
A81 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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A82 Micro damage evolution analysis of target impacted by projectile	Toshio Tsuta Yajun Yin Takeshi Iwamoto	JSME International Journal Ser. A, 46 , 2 (2003) pp. 109-118
A83 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
A84 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)
A85 Diagnosis of ball bearing based on chaos analysis	Yasuhisa Sekiguchi Noritoshi Nakagawa	Proc. of Asia-Pacific Vibration Conference 2003, 1 (2003) pp. 629-634
A86 Traveling wave ultrasonic motor using the bolt-clamped Langevin transducers	Jun Satonobu Masahiro Fukami Noritoshi Nakagawa	Proc. of Asia-Pacific Vibration Conference 2003, 1 (2003) pp. 623-628
A87 Traveling wave ultrasonic motor by using a flexural composite transducer	Jun Satonobu Masahiro Fukami Noritoshi Nakagawa	Japanese Journal of Applied Physics, 42 , 5B (2003) pp. 3007-3011
A88 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, 50 , 2 (2003) pp. 179-186
A89 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)
A90 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)
A91 Visualization Study of Oscillatory Entrance Flow in Curved Pipes	Masaru Sumida	CD-ROM Proceedings of 7th Asian Symposium on Visualization, (2003)
A92 Curvature Effects in the Curved Duct for the Compressible Viscous Flow with Heat Transfer	Kougen Ozaki Hiroshi Maekawa	Proceedings of ASME Fluid Engineering Conference, FEDSM3003 , 45634 (2003)
A93 An overview of the machinability of aeroengine alloys	E.O. Ezugwu J. Bonney Y. Yamane	Journal of Materials Processing Technology, 134 (2003)
A94 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
A95 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
A96 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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A97 A Multi-Model Based Fault Detection and Diagnosis of Internal Sensor for Mobile Robot	Masafumi Hashimoto Hiroyuki Kawashima Fuminori Oba	Proceeding of the 2003 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2003), (2003) pp. 3787-3792
A98 Experiments of Bi-directional AGV Routing and Traffic Control in a Dynamic Job Shop Scheduling Environment	Toru Eguchi Fuminori Oba Satoru Toyoda Hironori Matsuoka	Proceedings of 6th Japan-France Congress on Mechatronics and 4th Asia-Europe Congress on Mechatronics, (2003) pp. 107-112
A99 A Robust Neural Network For Dynamic Job Shop Scheduling	Toru Eguchi Fuminori Oba Satoru Toyooka	Electronic Proceedings of the 17th International Conference on Production Research, (2003)
A100 Unfalsified control approach to parameter space design of PID controllers	Masami Saeki	Proc. of the 42nd IEEE Conference on Decision and Control, (2003) pp. 786-791
A101 Synthesis of Output Feedback Gain-Scheduling Controllers Based on the Descriptor LPV System Representation	Izumi Masubuchi Tomoaki Akiyama Masami Saeki	Proc. of the 42nd IEEE Conference on Decision and Control, (2003) pp. 6115-6120
A102 Design of a Static Anti-windup Compensator that Optimizes L2 Performance: An LMI Based Approach	Nobutaka Wada Masami Saeki	Proc. of the 2003 IEEE International Conference on Robotics and Automation, (2003) pp. 2628-2633
A103 Reactive Disassembly Planning using Internet	Takeshi Murayama Kentaro Kagawa Fuminori Oba	Proceedings of SICE Annual Conference 2003, (2003) pp. 2772-2777
A104 Simulation-based Evaluation of Forward and Reverse Supply Chain	Takeshi Murayama Shinya Hatakenaka Fuminori Oba	Proceedings of EcoDesign 2003: The 3rd International Symposium on Environmentally Conscious Design and Inverse Manufacturing, (2003) pp. 521-526
A105 Anomalous surface deformation of sapphire clarified by 3D-FEM simulation of the nanoindentation	R. Nowak T. Manninen CL. Li K. Heiskanen SP. Hannula V. Lindroos T. Soga F. Yoshida	JSME International Journal Series A -Solid Mechanics and Material Engineering, 46 , 3 (2003) pp. 265-271
A106 Springback of sheet metal laminates in draw-bending	Ryutaro Hino Yoshihiro Goto Fusahito Yoshida	Journal of Materials Processing Technology, 139 , 1-3 (2003) pp. 341-347
A107 Effects of temperature on yield locus for 5083 aluminum alloy sheet	Tetsuo Naka Yasuhide Nakayama Takeshi Uemori Ryutaro Hino Fusahito Yoshida	Journal of Materials Processing Technology, 140 (2003) pp. 494-499
A108 Analysis of plastic bending of adhesive-bonded sheet metals taking account of viscoplasticity of adhesive	Michihiro Takiguchi Fusahito Yoshida	Journal of Materials Processing Technology, 140 (2003) pp. 441-446
A109 Wound stress of permeable papers with air-entrainment	K. Tanimoto K. Kohno S. Takahashi M. Sasaki F. Yoshida	Archive of Applied Mechanics, 73 , 3-4 (2003) pp. 160-170
A110 Effect of strain rate on Luders band propagating velocity and Luders strain for annealed mild steel under uniaxial tension	HB. Sun F. Yoshida M. Ohmori X. Ma	Materials Letters, 57 , 29 (2003) pp. 4535-4539
A111 Improvement of mechanical properties of chromium-nickel sintered compacts by multiple rolling	Y. Harada M. Ohmori F. Yoshida R. Nowak	Materials Letters, 57 , 5-6 (2003) pp. 1142-1150

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A112 Rate-dependent indentation hardness of a power-law creep solder alloy	X. Ma F. Yoshida	Applied Physics Letters, 82 , 2 (2003) pp. 188-190
A113 Deformation characteristics and delamination strength of adhesively bonded aluminium alloy sheet under plastic bending	M. Takiguchi F. Yoshida	JSME International Journal Series A -Solid Mechanics and Material Engineering, 46 , 1 (2003) pp. 68-75
A114 On the loading curve in microindentation of viscoplastic solder alloy	Xin Ma Fusahito Yoshida Kazuhiro Shinbata	Materials Science and Engineering A, 344 , 1-2 (2003) pp. 296-299
A115 A Model of Large-Strain Cyclic Plasticity and its Application to Springback Simulation	F. Yoshida T. Uemori	Key Engineering Materials, 233-236 (2003) pp. 47-58
A116 Rate-Dependent Shear Deformation of Ductile Acrylic Adhesive and its Constitutive Modeling	M. Takiguchi S. Izumi F. Yoshida	Key Engineering Materials, 233-236 (2003) pp. 175-180
A117 Investigation of cyclic elasto-plastic behaviour of copper sheet	T. Uemori F. Yoshida	Key Engineering Materials, 233-236 (2003) pp. 287-292
A118 Fracture of Type 5083 Aluminum Sheet under Warm Stretch Bending	T. Naka R. Hino F. Yoshida	Key Engineering Materials, 233-236 (2003) pp. 113-118
A119 Evaluation of press formability in magnesium alloy	M. Kohzu F. Yoshida K. Higashi	Magnesium Alloys 2003, Pts 1 and 2, Materials Science Forum, 419 , 4 (2003) pp. 321-326
A120 Numerical simulation of shear stress distribution in as soldered Al-Al ₂ O ₃ assembly	X. Ma F. Yoshida	Science and Technology of Welding and Joining, 8 , 2 (2003) pp. 154-156
A121 Determination of elastoplastic properties of individual phase in solidified Al brazed joint	YY. Qian F. Gao DP. Sekulic X. Ma F. Yoshida	Transactions of Nonferrous Metals Society of CHINA, 13 , Sp. Iss. 1 (2003) pp. 5-8
A122 Finite element simulation on the propagation of Luders band and effect of stress concentration	HB. Sun F. Yoshida X. Ma T. Kamei M. Ohmori	Materials Letters, 57 , 21 (2003) pp. 3206-3210
A123 Development of Cu-Sn intermetallic compound at Pb-free solder/Cu joint interface	Xin Ma Fengjiang Wang Yiyu Qian Fusahito Yoshida	Materials Letters, 57 , 22-23 (2003) pp. 3361-3365
A124 Inverse approach to identification of material parameters of cyclic elasto-plasticity for component layers of a bimetallic sheet	F. Yoshida M. Urabe R. Hino V.V. Toropov	International Journal of Plasticity, 19 , 12 (2003) pp. 2149-2170
A125 Identification of material properties for lead-free solder using micro-indentation experiments, FE simulation and optimization	H. Hamasaki F. Yoshida K. Shinbata V.V. Toropov	Short Papers of The Fifth World Congress of Structural and Multidisciplinary Optimization (WC-SMO5), (2003) pp. 101-102
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A130 Analysis and Simulation of Cracking Patterns in Coating under Biaxial Tensile or Thermal Stress Using Analysis/FEM Strain-accommodation Method	S.Gao K.Nakasa M.Kato	Engineering Fracture Mechanics, 70 (2003) pp. 1573-1591
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C45 Dependability analysis of a transaction-based multi server system with rejuvenation	H. Okamura S. Miyahara T. Dohi	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (A), E86-A , 8 (2003) pp. 2081-2090
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C47 Discrete availability models to rejuvenate a telecommunication billing application	T. Dohi K. Iwamoto H. Okamura N. Kaio	IEICE Transactions on Communications (B), E86-B , 10 (2003) pp. 2931-2939
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C49 Estimating discrete-time periodic software rejuvenation schedules under cost effectiveness criterion	K. Iwamoto T. Dohi N. Kaio	Proceedings of 9th International Conference on Reliability and Quality in Design, (2003) pp. 300-304
C50 Optimal lot sizing for an unreliable production system in discrete time setting	B. C. Giri T. Dohi	Proceedings of The 8th Annual International Conference on Industrial Engineering: Theory, Applications and Practice, (2003) pp. 968-973
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C54 Analysis of periodic software rejuvenation policies based on net present value approach	T. Danjou T. Dohi N. Kaio S. Osaki	Proceedings of 2nd International Conference on Quality, Reliability and Information Technology, (2003)
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F5 Integrated Characterization of Porous Low-k Films for Identifying Killer Pores and Micropores	N. Hata K. Yamada C. Negoro S. Takada, X. Xiao T. Kikkawa	Proceedings of 2003 IEEE International Interconnect Technology Conference, (2003) pp. 51-53
F6 Theoretical analysis of ultra low-k porous films with periodic pore arrangement and high elastic modulus	Hidenori Miyoshi Hisanori Matsuo Yoshiaki Oku Hirofumi Tanaka Kazuhiro Yamada Noboru Mikami Takamaro Kikkawa	Proceedings of 2003 IEEE International Interconnect Technology Conference, (2003) pp. 57-59
F7 Robust self-assembled monolayer as diffusion barrier for copper metallization	N. Mikami N. Hata T. Kikkawa H. Machida	Applied Physics Letters, 83 , 25 (2003) pp. 5181-5183
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F11 Influence of Metal Electrodes on Leakage Current in MSQ Films with or without Pores	N. Sasaki T. Oda T. Kikkawa	Proc. ULSIXVIII, Materials Research Society, (2003) pp. 265-268
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F13 KrF Excimer Laser Annealing For Ultra Shallow Junction Formation: Approach For Ir-radiation Energy Density Reduction	K. Shibahara K. Kurobe Y. Ishikawa K. Kagawa Y. Niwatsukino A. Matsuno	Extend. Abst. 11th Int. Conf. on Adv. Thermal Processing of Semiconductors, (2003) pp. 13-16
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