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Published Papers

A. Mechanical System Engineering

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A1 Repairing of stress corrosion cracking in overlaying of Inconel 182 by laser surface melting	G. Bao S. Iguro M. Inkyo K. Shinozaki Y. Mahara H. Watanabe	Proceeding of IIW, Doc. IX-2099-04, (2004)
A2 Evaluation method for liquation crack initiation at HAZ of laser weldment of Ni ² base superalloy Inconel 718	M. Yamamoto A. Takata S. Kamikariya K. Shinozaki M. Shirai	Proceeding of IIW, Doc. IX-2098-04, (2004)
A3 Investigation on dissolution and precipitation behaviours of precipitates in welded joints of high Cr ferritic heat resistant steels	Dejun Li K. Shinozaki	Proceeding of IIW, Doc. IX-2092-04, (2004)
A4 Wettability of Graphite by Molten Al-Mg Alloy	Tadashi Matsunaga Kenji Ogata Haruaki Hatayama Kenji Shinozaki Makoto Yoshida	Proceedings of The 11th US-Japan Conference on Composite Materials, (2004)
A5 Fabrication and Mechanical Properties of Carbon Fiber Reinforced	Tadashi Matsunaga Kenji Ogata Haruaki Hatayama Kenji Shinozaki Makoto Yoshida	Proceedings of The 11th US-Japan Conference on Composite Materials, (2004)
A6 Spark sintering of electroless Ni plated W powders	K. Matsugi Y. Yamashita G. Sasaki O. Yanagisawa	Proc.of the Int. Conf. on new frontiers of process science and engineering in advanced materials, PSEA'04, -The 14th Iketani Conf.-, 2 (2004) pp. 173-178
A7 Joining of spheroidal graphite cast iron to stainless steel by impact-electric current discharge joining	K. Matsugi M. Konishi O. Yanagisawa M. Kiritani	Journal of Materials Processing Technology, 150 , 3 (2004) pp. 300-308
A8 Evaluation of spatial distribution of particulate second phase in two phase materials	K. Matsugi T. Oki G. Sasaki O. Yanagisawa	Joint Conf. extended abstract booklet of the 11th US-Japan Conf. on composite materials and the 7th Int. Conf. on textile composite, (2004) pp. MMC2-1-MMC2-4
A9 Influence of TiC particles' spatial distribution on mechanical properties of Ti-TiCp composites	K. Matsugi T. Oki G. Sasaki O. Yanagisawa	Joint Conf. extended abstract booklet of the 11th US-Japan Conf. on composite materials and the 7th Int. Conf. on textile composite, (2004) pp. MMC3-1-MMC3-4
A10 Densification rate of mono-sized Cu-Al ₂ O ₃ composite powder compact in spark sintering	K. Matsugi H. Kuramoto G. Sasaki O. Yanagisawa	Joint Conf. extended abstract booklet of the 11th US-Japan Conf. on composite materials and the 7th Int. Conf. on textile composite, (2004) pp. MMC5-1-MMC5-4
A11 Visualized modeling of stir casting and fabrication of aluminum alloy matrix composites using ultrasonic vibration	Gen Sasaki Hitoshi Yae Kazuhiro Matsugi Osamu Yanagisawa	Joint Conf. extended abstract booklet of the 11th US-Japan Conf. on composite materials and the 7th Int. Conf. on textile composite, (2004) pp. MMC6-1-MMC6-4

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A12 Effects on Inorganic Binder to Improve Strength and Hardness of α +Al18B4O33w/AC4CH alloy Composites	Y. B. Choi J. W. Jung W. J. Park S. C. Huh K. Y. Lee G. Sasaki	Key Eng. Mat., 261-263 (2004) pp. 1451-1456
A13 Modern Trends of Aluminum and Magnesium Alloy Matrix Composites in Japan	G. Sasaki	Proc. of Fifth Joint Canada-Japan Workshop on Composites, (2004) pp. 33-39
A14 Development of Coarse and Columnar Ferrite Grains throughout Transformation	Hidegori Kuroki	Journal of the Japan Institute of Metals, 68 , 5 (2004) pp. 350-352
A15 Effect of Minimum Carbon on Coarse Grains in Sintered Iron	Hidegori Kuroki Youichi Tokunaga Hiroyuki Y. Suzuki	PM2004 Conference Proceedings, 3 (2004) pp. 17-22
A16 Assymmetrical Transformation in Different Types of Pure Irons	Hidegori Kuroki	Powder Metallurgy Progress, (2004) pp. 115-117
A17 Net Shape Formation of Sub-Micron Alumina with Reduced Flaws by High-Speed Centrifugal Compaction Process	Hiroyuki Y. Suzuki Hidegori Kuroki	Metals and Materials Int., 10 , 2 (2004) pp. 185-191
A18 High Speed Centrifugal Compaction and Sintering of High Alloy Tool Steels	Hiroyuki Y. Suzuki Hidegori Kuroki	Proceedings of EURO PM 2004, (2004) pp. 779-784
A19 Development of the robust MHD code using CIP scheme	Nobuhiro Nishino	Journal of Plasma and Fusion Research Series, 6 (2004)
A20 Positron Lifetime Studies of Non-Stoichiometric Defects in the γ -Phase Cu-Al and Cu-Ga Alloys	Hiroshi Fukushima Shinsuke Yokote	Materials Science Forum, 445 & 446 (2004) pp. 81-83
A21 HREM Observation of Twin Boundary-dislocation Junction in Polycrystalline Silicon	Isamu Kuchiwaki Takahiro Hirabayashi Hiroshi Fukushima	Proc. 8th Asia-Pacific Conference on Electron Microscopy, (2004) pp. 487-488
A22 In Situ HREM Studies of Solidification Phenomena in the Liquid State P-doped Silicon	Hiroshi Fukushima Isamu Kuchiwaki Takahiro Hirabayashi	Proc. 8th Asia-Pacific Conference on Electron Microscopy, (2004) pp. 673-674
A23 Pressure History at the Thrust Wall of a Simplified Pulse Detonation Engine	Takuma Endo Jiro Kasahara Akiko Matsuo Kazuaki Inaba Shigeru Sato Toshitaka Fujiwara	AIAA Journal, 42 , 9 (2004) pp. 1921-1930
A24 Imaging of Vapor/Liquid Distributions of Split-Injected Diesel Sprays in a 2-D Model Combustion Chamber	Yuyin Zhang Keiya Nishida	Combustion Science and Technology, 176 , 9 (2004) pp. 1465-1491
A25 Effect of Injection Temporal-Splitting on Characteristics of Fuel-Air Mixture Formation in a Common Rail Diesel Spray	Yuyin Zhang Keiya Nishida	Proceedings of the I MECH E, Part D, Journal of Automobile Engineering, 218 , 3 (2004) pp. 323-331
A26 Characterization of Initial Spray From a D.I. Gasoline Injector by Holography and Laser Diffraction Method	Tie Li Keiya Nishida Hiroyuki Hiroyasu	Atomization and Sprays, 14 , 5 (2004) pp. 477-494
A27 An Insight into Effect of Split Injection on Mixture Formation and Combustion of DI Gasoline Engines	Tie Li Keiya Nishida Yuyin Zhang Masahisa Yamakawa Hiroyuki Hiroyasu	SAE Paper, 2004-01-1949 (2004) pp. 1-8
A28 Enhancement of Stratified Charge for DISI Engines through Split Injection -Effect and Its Mechanism-	Tie Li Keiya Nishida Yuyin Zhang Tuyoshi Onoe Hiroyuki Hiroyasu	Proceedings of the Sixth International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines (COMODIA 2004), (2004) pp. 1-7

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A29 Mixture Formation Mechanism of Split Injection Spray Injected by High Pressure Swirl Injector for DISI Engines	Tie Li Keiya Nishida Tuyoshi Onoe	Proceedings of 9th Annual Conference on Liquid Atomization and Spray Systems (ILASS-Asia 2004), (2004) pp. 237-244
A30 Flame Stabilization with a Tubular Flame	Daisuke Shimokuri Satoru Ishizuka	Proceedings of the Combustion Institute, 30 (2004) pp. 399-406
A31 Observation of Interference between Stark and Electric Quadrupole Transitions in LIF from He Atoms in Plasmas	K. Takiyama S. Namba S. Furukawa T. Oda B. W. James D. Andruczyk	Proc. Int. Symposium on Plasma Polarization Spectroscopy, NIFS-PROC, 57 (2004) pp. 137-143
A32 Time-resolved photo-luminescence due to STE in TlBr doped with I ⁻ ions	A. Fujii K. Takiyama T. Haraguchi K. Miyazaki M. Tabuki	Journal of Luminescence, 108 (2004) pp. 81-84
A33 Preliminary Study of River Water in Gold Mining Areas of Cambodia	Satoshi Murao Fumitaka Nishiyama Sotham Sieng	International Journal of PIXE, 14 , 3&4 (2004) pp. 109-114
A34 Measuring fast neutrons in Hiroshima at distances relevant to atomic-bombsurvivors	T. Straume G. Rugel A.A. Marchetti W. Ruehm G. Korshinek J.E. McAninch K. Karroll S. Egbert T. Faestermann K. Knide R. Martinelli A. Wallner C. Wallner S. Fujita K. Shizuma M. Hoshi H. Hasai	Nature, 430 (2004) pp. 483-483
A35 First observation of isomeric transition from ^{148m} Pr and parity assignment for excited levels in ¹⁴⁸ Pr	Y. Kojima A. Taniguchi M. Shibata E. Oyama T. Nishimura K. Shizuma Y. Kawase	Eur. Phys. J. A, 19 (2004) pp. 77-81
A36 α -decays of neutron-deficient americium isotopes	M. Sakama M. Asai K. Tsukada S. Ichikawa I. Nishinaka Y. Nagame H. Haba S. Goto M. Shibata K. Kawade Y. Kojima Y. Oura M. Ebihara H. Nakahara	Phys. Rev. C, 69 (2004) pp. 014308-1-014308-11

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A37 EC and α decays of ^{235}Am	M. Asai M. Sakama K. Tsukada S. Ichikawa H. Haba I. Nishinaka Y. Nagame S. Goto Y. Kojima Y. Oura H. Nakahara M. Shibata K. Kawade	Eur. Phys. J. A, 22 (2004) pp. 411-416
A38 Deep underground measurements of Co60 in steel exposed to the Hiroshima atomic bomb	M. Hult J. Gasparro R. Vasselli K. Shizuma M. Hoshi D. Arnold S. Neumaier	Applied Radiation and Isotopes, 61 (2004) pp. 173-177
A39 Finite Element Stress Response Analysis and Strength Estimation of Butt Adhesive Joints of Hollow Cylinders Subjected to Impact Torsional Loadings	Toshiyuki SAWA Takahito SUZUKI Shouichi KIDO	Polymer Processing Society Annual Meeting and 20th Anniversary (CD-ROM), (2004)
A40 Stress Analysis and Strength Estimation of Bonded Shrink Fitted Joints of Solid Shafts under Push-off Force	Toshiyuki SAWA Masahiro YONENO	Polymer Processing Society Annual Meeting and 20th Anniversary (CD-ROM), (2004)
A41 Sealing Performance of Pipe Flange Connections With Shape Memory Allow Gaskets Under Internal Pressure	Teruhisa Tatsuoka Yoshio Takagi Toshiyuki Sawa	Proceedings of 2004 ASME/JSME PRESSURE VESSELS AND PIPING CONFERENCE, Analysis of Bolted Joints, 478 (2004) pp. 41-48
A42 Thermal stress Analysis and Sealing Performance Evaluation of Pipe Flange Connections With Spiral Wound Gaskets Under Elevated Temperature	Toshiyuki SAWA Wataru MAEZAKI	Proceedings of 2004 ASME/JSME Pressure Vessel and piping Conference, Analysis of Bolted Joints, 478 (2004) pp. 61-66
A43 FEM Stress Analysis and Sealing Performance in Bolted Flange Connection With Cover of Pressure Vessel Subjected to Internal Pressure	Toshiyuki SAWA Rie HIGUCHI	Proceedings of 2004 ASME/JSME Pressure Vessel and piping Conference, Analysis of Bolted Joints, 478 (2004) pp. 81-88
A44 Load Factor Based Calculation for Bolt Load and Gasket Load Changes Due to Internal Pressure	Satoshi NAGATA Mitsuhiro SUMOTO Toshiyuki SAWA	Proceedings of 2004 ASME/JSME Pressure Vessel and Piping Conference, Analysis of Bolted Joints, 478 (2004) pp. 89-96
A45 Stress Analysis and the Sealing Performance Evaluation of Pipe Flange Connections With Gaskets Subjected to Internal Pressure and External Bending Moment	Toshiyuki SAWA Wataru MAEZAKI Satoshi NAGATA	Proceeding of 2004 ASME/JSME Pressure Vessel and Piping Conference, Analysis of Bolted Joints, 478 (2004) pp. 137-144
A46 Three-dimensional Finite Element Stress Analysis of Butt Adhesive Joints with Fillers under Static Tensile Loadings	Toshiyuki SAWA Kohei ICHIKAWA	Proceedings of 2004 BEIJING BONDING TECHNOLOGY SYMPOSIUM(CD-ROM), (2004)
A47 Stress Analysis of Bonded Shrink Fitted Joints under Push-off Forces	Masahiro YONENO Toshiyuki SAWA	Proceedings of 2004 BEIJING BONDING TECHNOLOGY SYMPOSIUM (CD-ROM), (2004)
A48 FEM Stress Analysis and Strength Estimation of Stepped-lap Adhesive Joints of Dissimilar Adherends under Static Tensile Loadings	Toshiyuki Sawa Kohei Ichikawa	Proceedings of 2004 ASME International Mechanical Engineering Congress (CD-ROM), (2004)

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A49 Stress and Strength of Butt Circular Shaft With Metal Columns Subjected to Torques	Jiemin Liu Toshiyuki Sawa Jintang Liu	Proceedings of 2004 ASME International Mechanical Engineering Congress (CD-ROM), (2004)
A50 Finite Element Stress Analysis and Strength Evaluation of Adhesive Butt Joints of Circular Pipes Combining Coupling Collar With Adhesive Subjected to Internal Pressure, Temperature Change and External	Masahide Katsuo Toshiyuki Sawa	Proceedings of 2004 ASME International Mechanical Engineering Congress (CD-ROM), (2004)
A51 A Three-dimensional Axisymmetrical Thermal Stress Analysis of Butt Adhesive Joints of Finite Solid Cylinders	Toshiyuki Sawa Ryota Tanase	Proceedings of 2004 ASME International Mechanical Engineering Congress (CD-ROM), (2004)
A52 Finite Element Stress Analysis and Estimation of the Sealing Performance in Pipe Fittings with PTFE Tape for Threaded Connections under Internal Pressure	Mitsutoshi Ishimura Masahide Katsuo Toshiyuki Sawa	Proceedings of 2004 ASME International Mechanical Engineering Congress (CD-ROM), (2004)
A53 Stress Analysis and a Method for Designing Bolted Joints	Toshiyuki Sawa	Proceedings of 2004 ASME International Mechanical Engineering Congress (CD-ROM), (2004)
A54 Multiscale computational simulation of deformation behavior of TRIP steel with growth of martensitic particles in unit cell by asymptotic homogenization method	Takeshi IWAMOTO	International Journal of Plasticity, 20 , 4-5 (2004) pp. 841-869
A55 Finite element simulation of martensitic transformation in single-crystal TRIP steel based on crystal plasticity with cellular automata approach	Takeshi IWAMOTO Toshio TSUTA	Key Engineering Materials, 274-276 (2004) pp. 679-684
A56 Design and performance of gear pumps with a non-involute tooth profile	Kazuteru Nagamura Kiyotaka Ikejo Florin Gabriel Tutulan	Journal of Engineering Manufacture (IMEchE, UK), 218 , Part B (2004) pp. 699-711
A57 DNS of supersonic transitional and turbulent flows	Hiroshi Maekawa Daisuke Watanabe Kenshi Yamashita	Proc. of IWACOM (Invited Paper), 1 (2004)
A58 Analysis of Submerged Water Jets by Visualization Method (Flow Pattern and self-Induced Vibration of Jet)	Nobukatsu Shimada Hideki Hibara Yukio Ishibashi Masaru Sumida Kouzou Sudo	Journal of Visualization, 7 , 4 (2004) pp. 281-289
A59 Three-dimensional evolution of Structure and acoustic wave generation in a compressible plane wake	Daisuke Watanabe Hiroshi Maekawa	Fluid Dynamics Research, 34 (2004) pp. 145-165
A60 Mach Wave Emission in a Plane Supersonic Jet at High Convective Mach Numbers	Daisuke Watanabe Hiroshi Maekawa	Proc. of 24th Congress of the International Council of the Aeronautical Sciences ICAS2004 (CD-ROM), (2004)
A61 Curvature Effects in the Curved Duct for the Compressible Viscous Flow	Kougen Ozaki Hiroshi Maekawa	Proc. of 24th Congress of the International Council of the Aeronautical Sciences ICAS2004 (CD-ROM), (2004)
A62 Mathematical Model of Reusability	Takeshi Murayama Shinji Yamamoto Fuminori Oba	Proceedings of 2004 IEEE International Symposium on Electronics and the Environment, (2004) pp. 183-188
A63 Real-time Scheduling in Remanufacturing	Takeshi Murayama Hidekazu Tanaka Fuminori Oba	Proceedings of 2004 Japan-U.S.A. Symposium on Flexible Automation, (2004) pp. 1-4
A64 Assembly Sequence Planning using K-nearest-neighbor Rule	Takeshi Murayama Toru Eguchi Fuminori Oba	Proceedings of International Conference on Machine Automation, (2004) pp. 155-160

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A65 Extracting Priority Rules for Dynamic Job Shop Scheduling using Neural Networks	Toru Eguchi Fuminori Oba Naoki Maeda	Proceedings of the 2004 Japan-USA Symposium on Flexible Automation, (2004)
A66 Robust Localization by Fault Diagnosis of Internal Sensor for Mobile Robot	Masafumi Hashimoto Takashi Nakagami Shinji Watanabe Fuminori Oba	Proceeding of 2004 Japan-USA Symposium on Flexible Automation, (2004)
A67 Unfalsified control approach to parameter space design of PID controllers	Masami Saeki	Trans. of the Society of Instrument and Control Engineers, 40 , 4 (2004) pp. 398-404
A68 Coaxial control for injection equipments by twin ball screw drive	Kiyoshi Ochi Masami Saeki	The 47th IEEE International Midwest Symposium on Circuits and Systems, (2004) pp. III-145-III-148
A69 Gain scheduling controller design for twin rotor hovering system	Makoto Yamashita Masami Saeki Nobutaka Wada Izumi Masubuchi	SICE Annual Conference in Sapporo, (2004) pp. 1196-1201
A70 Unfalsified parameter space design of PID controllers for nonlinear plants	Masami Saeki Akihisa Takahashi Osamu Hamada Nobutaka Wada	Proc. of the 2004 IEEE International Conference on Control Applications, (2004) pp. 1521-1526
A71 Robust Tracking Control of a Non-holonomic Mobile Robot in the Presence of Disturbances	Nobutaka Wada Masami Saeki Haijun Chen	JSME International Journal Series C, 47 , 2 (2004) pp. 694-701
A72 l2-Gain Analysis of Input Constrained Discrete-Time Linear Systems Using Parameter Dependent Lyapunov Function	Nobutaka Wada Tomonori Oomoto Masami Saeki	Proc. of the 43rd IEEE Conference on Decision & Control, (2004) pp. 1952-1957
A73 Robust Model Predictive Control for Linear Parameter Varying Systems using Parameter Dependent Lyapunov Function	Nobutaka Wada Koji Saito Masami Saeki	Proc. of the 47th IEEE Midwest Symposium on Circuits and Systems, (2004) pp. III-133-III-136
A74 Realization-Independent Condition for Dissipativity of Descriptor Systems	Izumi Masubuchi	Trans. of the Society of Instrument and Control Engineers, 40 , 8 (2004) pp. 867-869
A75 Computation of Lyapunov Functions for Hybrid Automata via LMIs	Izumi Masubuchi Seiji Yabuki Tokihisa Tsuji	IEICE Transactions on Fundamentals, E87-A , 11 (2004) pp. 2937-2943
A76 Dissipativity Inequality for Continuous-Time Descriptor Systems: A Realization-Independent Condition	Izumi Masubuchi	Proc. of 10th IFAC Symposium on Large Scale Systems: Theory and Applications, (2004) pp. 417-420
A77 Gain-Scheduled Controller Design Based on Descriptor Representation of LPV Systems: Application to Flight Vehicle Control	Izumi Masubuchi Jun Kato Masami Saeki Atsumi Ohara	Proc. of 43rd IEEE Conference on Decision and Control, (2004) pp. 815-820
A78 Touch Sensing for High-speed Spindle Machine Tool	Masahiko Fukuta Yasuo Yamane Katsuhiko Sekiya Tadanori Sugino Norihiko Narutaki	Proc. Int. Conf. on Precision Engineering (ICoPE2003/04), (2004) pp. 352-357
A79 Reduction of Fracture of Work Piece at the Exit of Tool in Machining Powder Compaction of Sintered Steel	Katsuhiko Sekiya Yasuo Yamane	Proc. 7th Int. Conf. on Progress of Machining Technology, (2004) pp. 56-61
A80 The Addition of Aluminum and Magnesium to Gray Cast Iron as a Method of Reducing Cermet Tool Wear in High Speed Cutting	Satoshi Furuya Nobuaki Ozone Hiroshi Usuki Yasuo Yamane	Proc. 7th Int. Conf. on Progress of Machining Technology, (2004) pp. 33-37
A81 Drilling with MQL Process	Tadashi Makiyama Yasuo Yamane	Proc. 7th Int. Conf. on Progress of Machining Technology, (2004) pp. 169-174

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A82 A Non-contact Compensation Method of an Alignment and a Radius of a Grinding Wheel in Ultra-Precision Grinder	Masahiko Fukuta Yasuo Yamane Katsuhiko Sekiya Tadanori Sugino	Proc. 7th Int. Conf. on Progress of Machining Technology, (2004) pp. 561-566
A83 Effect of forming speed on plastic bending of adhesively bonded sheet metals	M. Takiguchi F. Yoshida	JSME International Journal Series A - Solid Mechanics and Material Engineering, 47 , 1 (2004) pp. 47-53
A84 Rate-dependent shear deformation of ductile acrylic adhesive and its constitutive modelling	M. Takiguchi S. Izumi F. Yoshida	Proceedings of the Institution of Mechanical Engineers Part C - Journal of Mechanical Engineering Science, 218 , 6 (2004) pp. 623-629
A85 Determination of plasticity properties of metal surfaces by micro-indentation	F. Yoshida H. Hamasaki	Proceedings of the 2nd International Conference on Tribology in Manufacturing Processes (ICTMP2004), (2004) pp. 347-354
A86 Optimum Blank Design for Deep Drawing Using Interaction of High and Low Fidelity Simulation	R. Hino F. Yoshida V.V. Toropov	21st International Congress of Theoretical and Applied Mechanics (ICTAM04) CD-ROM Proceedings, (2004)
A87 A Model of Cyclic Viscoplasticity with Special Reference to Yield-point Phenomena	F. Yoshida	21st International Congress of Theoretical and Applied Mechanics (ICTAM04) CD-ROM Proceedings, (2004)
A88 Elastic-Plastic Bending Deformation of Adhesively Bonded Sheet Metals in Tensile Lap Shear Tests with Special Reference to Effect of Tensile Speed	M. Takiguchi T. Yoshida F. Yoshida	Key Engineering Materials, 274-276 (2004) pp. 805-810
A89 Strength of Highly Ductile Acrylic Adhesive in Butt-Joint under Combined Tension and Torsion	T. Yoshida M. Takiguchi F. Yoshida	Key Engineering Materials, 274-276 (2004) pp. 993-998
A90 Effect of Strain-Rate and Temperature on Yield Locus for 5083 Aluminum Alloy Sheet	T. Naka Y. Nakayama T. Uemori R. Hino F. Yoshida	Key Engineering Materials, 274-276 (2004) pp. 937-942
A91 Effect of Decarburized Layer of Tool Steel on Delamination Strength of WC-Co Thermally Sprayed Coating	C.Li M.Kato K.Nakasa	Key Engineering Materials, 261-263 (2004) pp. 447-452
A92 Observation of Hydride Formation Behavior on Pure Titanium with and without Nitrogen Ion Implantation	R.Wang Q.Zhang J.Nie M.Kato K.Nakasa	Proceedings of the Third International Conference on Environment Sensitive Cracking and Corrosion Damage, (2004) pp. 45-50
A93 Effect of Gas Nitriding on Hydrogen-Induced Cracking on Pure Iron and Cr-Mo Steel	M.G. Mahmoud K.Nakasa M.Kato R.Wang Y.Murakami	Proceedings of the Third International Conference on Environment Sensitive Cracking and Corrosion Damage, (2004) pp. 56-60
A94 Observation of Corrosion-Pits Formation and Growth Behavior in SUS304 Stainless Steel by Atomic Force Microscope	Q.Zhang R.Wang M.Kato K.Nakasa	Proceedings of the Third International Conference on Environment Sensitive Cracking and Corrosion Damage, (2004) pp. 185-189
A95 Atmospheric Corrosion Resistance of Stainless Steels in the Laboratory Accelerated Seashore Environment	H.Nagano M.G.Mahmoud K.Nakasa	Proceedings of the Third International Conference on Environment Sensitive Cracking and Corrosion Damage, (2004) pp. 168-172

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A96 XPS Analysis and Atomic Force Microscopy Observation of Micro-liquids adsorbed on Pure Iron and Copper Surfaces	Rongguang Wang Mitsuo Kido Fumihiro Suzumura	Materials Science Forum, 449-452 (2004) pp. 1025-1028
A97 An AFM and XPS study of corrosion caused by micro-liquid of dilute sulfuric acid on stainless steel	Rongguang Wang	Applied Surface Science, 227 , 1-4 (2004) pp. 399-409

B. Artificial Complex Systems Engineering

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B1 An interactive fuzzy satisficing method for multiobjective linear programming problems with random variable coefficients through a probability maximization model	Masatoshi Sakawa Kosuke Kato Hideki Katagiri	Fuzzy Sets and Systems, 146 , 2 (2004) pp. 205-220
B2 Derivation of Pareto optimal solution set to multiobjective programming problems through evolutionary multi-agent system	Junko Shibata Masatoshi Sakawa Kosuke Kato Hideki Katagiri Koji Sasaki	Proceedings of the 17th International Conference on Multiple Criteria Decision Making, CD-ROM (2004)
B3 Two-level nonlinear integer programming problem through genetic algorithms	Md. Abul Kalam Azad Masatoshi Sakawa Kosuke Kato Hideki Katagiri	Proceedings of the 2nd International Conference on Soft Computing and Intelligent Systems, CD-ROM (2004)
B4 An interactive fuzzy satisficing method for multiobjective integer programming problems through genetic algorithms	Kosuke Kato Cahit Perkgoz Masatoshi Sakawa	Studies in Fuzziness and Soft Computing, Knowledge Incorporation in Evolutionary Computation, 167 (2004) pp. 503-524
B5 Interactive fuzzy programming for two-level linear programming problems with random variable coefficients based on fractile criterion optimization model	Kosuke Kato Jingtao Wang Hideki Katagiri Masatoshi Sakawa	The 47th IEEE International Midwest Symposium on Circuits and Systems, 3 (2004) pp. 65-68
B6 An interactive fuzzy satisficing method for multiobjective stochastic zero-one programming problems through probability maximization model	Kosuke Kato Cahit Perkgoz Hideki Katagiri Masatoshi Sakawa	Proceedings of the 17th International Conference on Multiple Criteria Decision Making, CD-ROM (2004)
B7 An interactive fuzzy satisficing method for multiobjective stochastic integer programming problems through variance minimization model	Cahit Perkgoz Kosuke Kato Hideki Katagiri Masatoshi Sakawa	Scientiae Mathematicae Japonicae, 60 , 2 (2004) pp. 327-336
B8 Time-cost trade-off in PERT networks using a genetic algorithm	Amir Azaron Cahit Perkgoz Kosuke Kato Hideki Katagiri Masatoshi Sakawa	The 47th IEEE International Midwest Symposium on Circuits and Systems, 3 (2004) pp. 57-60
B9 Interactive fuzzy programming using partial information about preference through genetic algorithms for multiobjective two-level integer programming problems	Keiichi Niwa Kosuke Kato Masatoshi Sakawa Ichiro Nishizaki	Proceedings of the 2nd International Conference on Soft Computing and Intelligent Systems, CD-ROM (2004)
B10 Reaction of trader agent with reinforcement learning mechanism in artificial market by multi-agents system	Junko Shibata Koji Okuhara Kosuke Kato Masatoshi Sakawa	Proceedings of the 2nd International Conference on Soft Computing and Intelligent Systems, CD-ROM (2004)
B11 Interactive decision making for multi-objective competitive facility location problem	Takeshi Uno Masatoshi Sakawa	Proceedings of the 17th International Conference on Multiple Criteria Decision Making, CD-ROM (2004)

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B12 An efficient taboo search approach for competitive facility location problem	Takeshi Uno Masatoshi Sakawa	Proceedings of the 2nd International Conference on Soft Computing and Intelligent Systems, CD-ROM (2004)
B13 Interactive Fuzzy Satisfying Approach for Multi-Objective Defensive Location Problem	Takeshi Uno Masatoshi Sakawa	Proceedings of the 8th Multi-Conference on Systemics, Cybernetics and Informatics , CD-ROM (2004)
B14 Robust Principal Component Analysis with Adaptive Selection for Tuning Parameters	Isao Higuchi Shinto Eguchi	Journal of Machine Learning Research, 5 (2004) pp. 453-471
B15 Influence of environmental changes on cooperative behavior in the prisoner's dilemma game on an artificial social model	Ichiro Nishizaki Masatoshi Sakawa Hideki Katagiri	Applied Artificial Intelligence, 18 , 7 (2004) pp. 651-671
B16 Development of interactive software for multiobjective decision analysis: MIDASS	Fumiko Seo Ichiro Nishizaki Hidenobu Hamamoto	Cybernetics and Systems 2004, (2004) pp. 475-480
B17 Simulation analysis on an artificial society model for selection of financing methods for preservation of the global commons	Ichiro Nishizaki Yoshifumi Ueda Tomohiko Sasaki	The 2004 IEEE International Midwest Symposium on Circuits and Systems (MWSCAS 2004), (2004) pp. III-45-III-48
B18 Sensitivity analysis incorporating fuzzy evaluation for scaling constants of multiattribute utility functions in multiplicative form	Ichiro Nishizaki Hideki Katagiri	The 17-th International Conference on Multiple Criteria Decision Making, CD-ROM , (2004)
B19 Multiattribute utility analysis for policy selection and financing for the preservation of the forest	Tomohiro Hayashida Ichiro Nishizaki Yoshifumi Ueda	The 17-th International Conference on Multiple Criteria Decision Making, CD-ROM , (2004)
B20 Cost allocation based on the solution concept from fuzzy cooperative games for a production and transportation problem -a case study-	Ichiro Nishizaki Masatoshi Sakawa Hideki Katagiri Yoshio Uemura	Proceedings of the Third International Conference on Nonlinear Analysis and Convex Analysis, (2004) pp. 413-429
B21 Fuzzy random bottleneck spanning tree problems using possibility and necessity measures	Hideki Katagiri Masatoshi Sakawa Hiroaki Ishii	European Journal of Operational Research, 152 , 1 (2004) pp. 88-95
B22 On fuzzy random linear knapsack problems	Hideki Katagiri Hiroaki Ishii Masatoshi Sakawa	Central European Journal of Operations Research, 12 , 1 (2004) pp. 59-70
B23 A fuzzy random multiobjective 0-1 programming problem based on the expectation optimization model	Hideki Katagiri Masatoshi Sakawa Kosuke Kato Ichiro Nishizaki	Mathematical and Computer Modelling, 40 , 3-4 (2004) pp. 411-421
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D79 A 2 : 1 Coupling Reaction of Arynes with Aldehydes via o-Quinone Methides: Straightforward Synthesis of 9-Arylxanthenes	H. Yoshida M. Watanabe H. Fukushima J. Ohshita A. Kunai	Org. Lett., 6 (2004) pp. 4049-4051
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