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Published Papers

A. Mechanical System Engineering

Abstract	Author	Journal
A1 Development of Laser Welding Technology for Vanadium and Its Alloys	HEO Nam-Jin Nagasaka Takuya Muroga Takeo Nishimura Arata Shinozaki Kenji Takeshita Noriyuki	Journal of Plasma Fusion and Research, accepted, (2002)
A Metallurgical and Mechanical Properties of Laser Weldment for Low Activation V-4CR-4TI Alloy	HEO Nam-Jin Nagasaka Takuya Muroga Takeo Nishimura Arata Shinozaki Kenji Takeshita Noriyuki	Fusion Engineering Design, 91 (2002) pp. 749-755
A Liquid Zinc Corrosion of Steel Welds	Suzuki. K Aihara. S Ichikawa. K Yajima. H Shinozaki. K Yamamoto. M	Science and Technology of Welding and Joining, 5 (2002) pp. 1-6
A Analysis of Degradation of Creep Strength in Heat-Affected Zone of Weldment of High Cr Heat-resisting Steel Based on Void Observation	Shinozaki. K De Jun Li Kuroki. H Harada. H Ohishi. K	ISI International, 12 (2002) pp. 1578-1584
A Prediction of Liquation Crack Initiation at HAZ of Laser Weldment Based on Three Dimensional Strain Analysis at Elevated Temperature	Yamamoto. M Shinozaki. K Kitamura. M Shirai. M	Proceedings of High-Power Laser Macroprocessing, 240 (2002)
A ⁶ Effect of Intermetallic Compound on Mechanical Properties of Al-Cu Dissimilar Brazing Joint	Koyama. K Shinozaki. K Ikeda. K Kuroki. H	Proceedings of IWC-Korea 2002, (2002)
A Prediction of Liquation Crack Initiation at HAZ of Laser Weldment Based on Strain Analysis at Elevated Temperature	Yamamoto. M Shinozaki. K Kitamura. M Shirai. M	Proceedings of IWC-Korea 2002, (2002)
A Consideration of the Adhesion Mechanism of Ti Alloys		

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A1 Preparation and Mechanical Properties of Carbon Fiber Reinforced AZ91D Magnesium Alloy Composites Fabricated by Squeeze Casting Process	Matunaga. T Yoshida. M Sasaki. G J. Pan Fujii. T Fuyama. N Fukunaga. H	Proc.JSME/ASME Int'l Conf.On Materials and Processing 2002, (2002) pp. 347-351
A1 Characterization of Heat Insulating and Lubricating Ability of Powder Iubricants for Clean and High Quality Die Casting	Kimura. R Yoshida. M Sasaki. G Fukunaga. H	J.Materials Processing Technology, 1 1 1 (2002) pp. 289-293
A1 Influence of Abnormal Structure on the Reliability of Squeeze Castings	Kimura. R Yoshida. M Sasaki. G Fukunaga. H	J.Materials Processing Technology, 1 1 1 (2002) pp. 299-303
A1 Rapid consolidation by spark sintering of rapidly solidified 7075 aluminum alloy powder	K.Matsugi Y.Wang T.Hatayama O.Yanagisawa M.Kiritani	Radiation Effetcts and Defects in Solids, 1 , 1-2 (2002) pp. 233-244
A1 ⁶ HREM and EDS Analysis of Sintered SiC Fiber Reinforced MAS Glass Composites	K. Nagahisa M. Yoshida E. Abe H. Fukunaga G. Sasaki	J. Electron Microscopy, 1 (2002) pp. S159-S164
A1 Effect of whisker surface treatment on the strength of Al18B4O33/Al alloy composites	J. Pan S.P. Lee M. Yoshida G. Sasaki N. Fuyama T. Fujii H. Fukunaga	Adv. Composite Mater., 1 , 4 (2002) pp. 299-307
A1 Interfacial microstructure of anodic-bonded Al/glass	Q. F. Xing G. Sasaki H. Fukunaga	J. Mat. Sci., Mat. in Electronics, 1 (2002) pp. 83-88
A1 TEM study on anodic bonded Al/glass and Si/glass	Q. F. Xing M. Yoshida G. Sasaki	Proc. JSME/ASME Int'l Conf. On Materials and Processing 2002, (2002) pp. 41-46
A Effect of fabrication condition on microstructure and mechanical properties of compo-casting Al18B4O33/ AZ91D magnesium alloy composites	G. Sasaki M. Yoshida N. Fuyama T. Fujii H. Fukunaga	Proc. JSME/ASME Int'l Conf. On Materials and Processing 2002, (2002) pp. 343-346
A 1 Relationship between Aging Behaviors and Interfacial Reaction of casting Al18B4O33 Whisker Reinforced Magnesium Alloy Composites	W. G. Wang K. Matsugi O. Yanagisawa G. Sasaki	Proc. JSME/ASME Int'l Conf. On Materials and Processing 2002, (2002) pp. 352-356
A TEM study of the interface of anodic bonded Si/Glass	Q. F. Xing M. Yoshida G. Sasaki	Scripta Mat., (2002) pp. 577-582
A Stirring Simulation of Compo-casting Process and Fabrication of the Metal Matrix Composites	G. Sasaki J. Adachi M. Yoshida K. Matsugi O. Yanagisawa N. Fuyama T. Fujii	CJUJCC-5 Proceedings, (2002) pp. 258-262
A The Aging Behaviors of Al18B4O33 Whisker Reinforced Magnesium Alloy Composites	W.G. Wang K. Matsugi O. Yanagisawa G. Sasaki	CJUJCC-5 Proceedings, (2002) pp. 208-213

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A Modeling of Compcasting Process and Fabrication of AZ91D Magnesium Alloy Matrix Composites	G. Sasaki M. Yoshida N. Fuyama T. Fujii	J. Materials Processing Technology, 111 (2002) pp. 151-155
A Structure Characterization of High Pressure Synthesized B-C-N Compounds	J.He Y.Tian D.Yu S.Liu L.Guo X.Jia G.Li O.Yanagisawa	J.of Chinese Ceramic Society, 1 (2002) pp. 51-56
A B-C-N Compound Synthesized under High Temperature and High Pressure	Y.J.Tian J.L.He D.L.Yu D.C.Li G.T.Zou X.P.Jia L.X.Chen O.Yanagisawa	J. of Radiation effects and defects in solid, 1 (2002) pp. 245-251
A Homogeneous Compaction of Fine Ceramic and Carbide Powders by High-Speed Centrifugal Compaction Process	Hiroyuki Y. Suzuki Shunzo Tashima Hidenori Kuroki	Proceedings of EURO PM 2002, European Powder Metallurgy Association, UK, (2002) pp. 46-51
A First results with the NSTX Fast Divertor Camera	Nobuhiro Nishino Lane Roquemore Robert Kaita Stewart Zweben David Johnson Henry Kugel Ricardo Maqueda Charles Bush Rajesh Maingi Vlad Soukhanovskii Franco Paoletti Steven Sabbagh NSTX team	J. Plasma Fusion Res. 1 (2002)

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- A** Electrochemical oxidation of carbon monoxide, methanol, formic acid, ethanol, and acetic acid on a platinum electrode under hot aqueous conditions
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- A** Modeling of supercritical water oxidation of phenol catalyzed by activated carbon
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- A** Adsorption of carbon monoxide on platinum in hot aqueous acidic solution from 423 to 533 K
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- A** Comparison of the effects of the addition of NaOH on the decomposition of 2-chlorophenol and phenol in supercritical water and under supercritical water oxidation conditions
G. Lee
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- A** Visualization of Burning Flow around a Ram Accelerator Projectile by Coaxial Simultaneous Shadow/Direct Photography
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- A** Flame Propagation along a Vortex Axis
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- A** An Analysis of Ambient Air Entrainment into Split Injection D.I. Gasoline Spray by LIF-PIV Technique
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- A** Quantitative Measurement of Liquid and Vapor Phase Concentration Distributions in a D.I. Gasoline Spray by the Laser Absorption Scattering (LAS) Technique
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Keiya Nishida
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- A** An Analysis of Droplets and Ambient Air Interaction in a D.I. Gasoline Spray Using LIF-PIV Technique
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- A** Initial Spray Formation Process of Swirl-Type D.I. Gasoline Injector - Analyses by Laser Sheet Tomography and High Speed Video Imaging -
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- A** Demonstration of a Transient High Gain Soft X-Ray Laser for Neon-like Argon
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A 1 Gain saturation of nickel-like silver and tin x-ray lasers by use of a table top pumping laser system	Tetsuya Kawachi Masataka Kado Momoko Tanaka Akira Sasaki Noboru Hasegawa Alexander Kilpio Shinichi Namba	Physical Review A, 66

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A ⁶ Application of neural networks for the analysis of gamma-ray spectra measured with a Ge spectrometer	E. Yoshida K. Shizuma S. Endo T. Oka	Nuclear Instruments and Methods A, 1-3 (2002) pp. 575-581
A ⁶ Benchmark for β -ray transport code using ion-implanted Si-detector	S. Endo K. Yoshimoto Y. Kojima M. Hoshi K. Shizuma	Japanese Journal of Medical Physics, (2002) pp. 32-34
A ⁶ Measuring the external exposure dose in the contaminated area near the Chernobyl nuclear power station using the thermoluminescence of quartz in bricks	H. Sato T. Takatsuji J. Takada S. Endo M. Hoshi V. F. Sharifov I. I. Veselkina I. V. Pienko W. A. F. Kalimullin V. B. Masyakin I. Yoshikawa T. Nagatomo S. Okajima	Health Physics, (2002) pp. 227-236
A ⁶ Decay scheme of ¹²⁶ La isomers	Y. Kojima M. Asai M. Shibata K. Kawade A. Taniguchi A. Osa M. Koizumi T. Sekine	Applied Radiation and Isotopes, ⁶ (2002) pp. 543-556
A ⁶⁶ Performance of the multiple target He/PbI ₂ aerosol jet system for mass separation of neutron-deficient actinide isotopes	S. Ichikawa K. Tsukada M. Asai H. Haba M. Sakama Y. Kojima M. Shibata Y. Nagame Y. Oura K. Kawade	Nuclear Instruments and Methods B, ¹ (2002) pp. 548-554
A ⁶ Q_{β} determination of neutron-rich isotope ¹⁴⁴ La with a total absorption detector	M. Shibata T. Shindou A. Taniguchi Y. Kojima K. Kawade S. Ichikawa Y. Kawase	Journal of Physical Society of Japan, ¹ (2002) pp. 1404-1402
A ⁶ Decay studies of neutron-deficient Am, Cm, and Bk nuclei using an on-line isotope separator	M. Asai M. Sakama K. Tsukada Ichikawa H. Haba I. Nishinaka Y. Nagame S. Goto K. Akiyama A. Toyoshima Y. Kojima Y. Oura H. Nakahara M. Shibata K. Kawade	Journal of Nuclear and Radiochem- ical Science, (2002) pp. 187-190
A ⁶ Decay studies on neutron-rich isotope ¹⁵¹ Ce	Y. Kojima M. Shibata A. Taniguchi Y. Kawase T. Hanafusa E. Yoshida K. Shizuma	Supplement of Journal of Nuclear Science and Technology, (2002) pp. 489-492

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A Microdosimetry of epithermal neutron field at the Kyoto University Reactor	Y. Onizuka S. Endo M. Ishikawa M. Hoshi M. Takada T. Kobayashi Y. Sakurai H. Utsumi S. Uehara N. Hayabuchi N. Maeda T. Takatsuji K. Fujikawa	Radiation Protection Dosimetry, 1-4 (2002) pp. 383-385
A Dosimetry of fission neutrons in a 1-W reactor, UTR-KINKI	S. Endo E. Yoshida Y. Yoshitake T. Horiguchi W. Zhang K. Fujikawa M. Hoshi T. Itoh M. Ishikawa K. Shizuma	Journal of Radiation Research, (2002) pp. 381-386
A Real time estimation of neutron flux during BNCT treatment using plastic scintillation detector with optical fiber	M. Ishikawa N. Unesaki T. Kobayashi Y. Sakurai K. Tanaka S. Endo M. Hoshi	Research and development in Neutron Capture therapy, Essen, (2002) pp. 8-13
A Relative biological effectiveness of fission neutrons for producing micronuclei in the root-tip cells of onion seedlings after irradiation as dry seeds	W. Zhang S. Endo M. Ishikawa H. Ikeda M. Hishi	Journal of Radiation Research, (2002) pp. 397-403
A Measurement of residual ^{60}Co activity induced by atomic-bomb neutrons in Nagasaki and background contribution by environmental neutrons	K. Shizuma S. Endo M. Hoshi J. Takada K. Iwatani H. Hasai T. Oka T. Shimazaki Y. Okumura S. Fujita T. Watanabe T. Imanaka	Journal of Radiation Research, (2002) pp. 387-396
A Reassessment of the cancer mortality risk among Hiroshima atomic-bomb survivors using a new dosimetry system, ABS2000D, compared with ABS93D	H. Katayama M. Matsuura S. Endo M. Hoshi M. Ohtaki N. Hayakawa	Journal of Radiation Research, (2002) pp. 53-64
A Anomalous $^{235}\text{U}/^{238}\text{U}$ ratio and metal elements detected in the black rain from the Hiroshima a-bomb	Y. Fujikawa K. Shizuma S. Endo M. Fukui	Health Physics, (2002) pp. 155-162
A Large-Deformation Dynamics of Flexible Link Systems Moving along Nonlinear Trajectories	Shingo OKAMOTO Yuuki OMURA	First Asian Conference on Multi-body Dynamics'2002, Iwaki, Fukushima, Japan, June 31 - August 2, (2002) pp. 193-200
A Computational simulation on deformation behavior of CT specimens of TRIP steel under mode I loading for evaluation of fracture toughness	Takeshi IWAMOTO Toshio TSUTA	International Journal of Plasticity, 1 (2002) pp. 1583-1606

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Computational simulation of deformation behavior of TRIP steel by homogenization	Takeshi IWAMOTO Toshio TSUTA Takeshi KAWAMOTO	Plasticity, Damage and Fracture at Macro, Micro and Nano Scales, Proc. Plasticity 2002,	(2002) pp. 189-191
1 Identification of Sound Sources based on Sound Pressure Measurement considering Observation Point Importance	Yasuhisa Sekiguchi Noritoshi Nakagawa	Proc. International Symposium on Machine Condition Monitoring and Diagnosis,	(2002) pp. 110-116
Pattern Recognition Analysis for Ball Bearing Diagnosis	Yasuhisa Sekiguchi Noritoshi Nakagawa	Proc. International Symposium on Machine Condition Monitoring and Diagnosis,	(2002) pp. 59-64
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Chaos Analysis and Diagnosis of Ball Bearing Vibration	Yasuhisa Sekiguchi Noritoshi Nakagawa	Proc. 15th International Congress on Condition Monitoring and Diagnostic Engineering Management,	(2002) pp. 278-287
6 Influence of Tennis-Ball Slide on Ball-Spin during Impact	Noritoshi Nakagawa Yasuhisa Sekiguchi Naoya Okada Hironobu Monden	The Book of the 4th International Conference on the Engineering of Sport,	(2002) pp. 46-51
Flow Analysis of Self-Induced Vibration of Plane Submerged Water Jets	Nobukazu Shimada Hideki Hibara Masaru Sumida Kozo Sudo	CD-ROM Proceedings of 10th International Symposium on Flow Visualization, F0047	(2002)
High-Level Noise Induced Bypass Transition in Compressible Plane Poiseuille Flow	Moez Yahyaoui Hiroshi Maekawa	JSME International Journal,	, 2 (2002) pp. 408-418
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Study of Vortex Dislocations in the Wake of a Flat Plate with Finite Thickness	Hiroshi Maekawa So Abe	JSME International Journal,	, 4 (2002) pp. 843-849
1 Transition of Supersonic Plane Jet due to Symmetric/Anti-Symmetric Unstable Modes	Daisuke Watanabe Hiroshi Maekawa	Journal of Turbulence(Institute of Physics),	, 47 (2002) pp. 1-17
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Actuator with a Pair of Wings for Manipulation of Hairpin Vortices	Youichi Kamikuchi Hiroshi Maekawa	Fifth JSME-KSME Fluids Engineering Conference,	(2002) pp. 321-325
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A ⁶ Face milling of BN added steels	Ryutaro Tanaka Yasuo Yamane Katsuhiko Sekiya Norihiko Narutaki Tetsuo Shiraga	Proceedings of the 6th International Conference on Progress of Machining Technology, (2002) pp. 105-110
A ^v Gap sensing for air bearing	Masahiko Fukuta Yasuo Yamane Norihiko Narutaki	Proceedings of the 6th International Conference on Progress of Machining Technology, (2002) pp. 581-585
A Sensor Fault Detection and Diagnosis in Dead Reckoning System of Mobile Robot: Interacting Multiple-Model Approach	Masafumi Hashimoto Hiroyuki Kawashima Fuminori Oba	Journal of Robotics and Mechatronics, 1 , 4 (2002) pp. 342-348
A Path-Tracking and Chassis-Leveling Control Method for an Omnidirectional Vehicle on Slope	Masafumi Hashimoto Hiroyuki Hata Fuminori Oba	Proceeding of 2002 Japan-USA Symposium on Flexible Automation, (2002) pp. CD-ROM
A ¹ An Effective Heuristic Rule for Dynamic Job Shop Scheduling with Alternative Machines	Toru Eguchi Fuminori Oba Satoru Toyooka Yasuhiro Sato	Proceedings of The 35th CIRP International Seminar on Manufacturing Systems, (2002) pp. 225-231
A ¹ ¹ Dynamic Job Shop Scheduling Using a Neural Network: Two-stage Training and Information Theoretic Analysis	Toru Eguchi Fuminori Oba Satoru Toyooka	Proceedings of the 2002 Japan-USA Symposium on Flexible Automation, (2002) pp. 959-966
A ¹ Synthesis of a static anti-windup compensator via linear matrix inequalities	Masami Saeki Nobutaka Wada	International Journal of Robust and Nonlinear Control, 1 (2002) pp. 927-953
A ¹ Path following control of articulated vehicle by backward driving	Masami Saeki	Proceedings of the 2002 IEEE International Conference on Control Applications, CD ROM (2002) pp. 421-426
A ¹ A new adaptive method for identification of critical gain using saturation function	Masami Saeki	Asian Journal of Control, 4 (2002) pp. 464-471
A ¹ Anti-windup Design Based on L2 Performance Criterion	Nobutaka Wada Masami Saeki	Proc. of ICASE/SICE Joint Workshop, (2002) pp. 199-203
A ¹ ⁶ Optimal selection of the used products to be disassembled for remanufacturing	Takeshi Murayama Hidekazu Tanaka Norihiko Narutaki Fuminori Oba	Proceedings of 2002 Japan-U.S.A. Symposium on Flexible Automation, (2002) pp. 1347-1350
A ¹ ^v Decentralized LCA using Distributed Object Technology	Takeshi Murayama Shintaro Tadokoro Shinichi Tainaka Norihiko Narutaki Fuminori Oba	Proceedings of The 5th International Conference on EcoBalance, (2002) pp. 107-110
A ¹ Sharing and Adjustment of Design Targets in a Distributed CAD System	Takeshi Murayama Hirofumi Fukumaru Hiromichi Matsuoka Fuminori Oba	Proceedings of 2002 IEEE International Conference on Industrial Technology, 1 (2002) pp. 138-142
A ¹ Machinability of Pearlitic Cast Iron With Cubic Boron Nitride (CBN) Cutting Tools	Jiancheng Liu Kazuo Yamazaki Hiroyuki Ueda Norihiko Narutaki Yasuo Yamane	Transactions of the ASME, 1 (2002) pp. 820-832
A ¹¹ Round Insert Improves the Grooving Ability of Difficult-to-cut Materials	Norihiko Narutaki Akio Ochi	Proc. the 6th Int. Conf. on Progress of Machining Technology, (2002) pp. 503-508

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| A11 Deformation behaviour of chromium sheets in mechanical and laser bending | K. C. Chan
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| A11 Interaction relation in 60Sn-Pb-0.05La ternary solder alloy | Xin Ma
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A1 Microindentation study on the rate sensitivity of non-homogeneous solder alloy	Xin Ma F. Yoshida K. Shinbata	Journal of Materials Science Let

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B Computational methods for two-level integer programming problems with fuzzy parameters through genetic algorithms	Keiichi Niwa Ichiro Nishizaki Masatoshi Sakawa	Knowledge-Based Intelligent Information Engineering Systems & Allied Technologies, (2002) pp. 1247-1251
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B11 Linear programming problems with random fuzzy variable coefficients	Hideki Katagiri Hiroaki Ishii Masatoshi Sakawa	Proceedings of 5th Czech-Japan Seminar on Data Analysis and Decision Making under Uncertainty, (2002) pp. 55-58
B1 Average-Rate Optimal PSAM Transmissions over Time-Selective Fading Channels	S. Ohno B. Giannakis	IEEE Transactions on Wireless Communications, 1 , 4 (2002) pp. 712-720
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B1 Multiple Channel Active Noise Control System Based on Simultaneous Equations Methods Considering the Correlation between Reference Inputs	Mitsuji Muneyasu Ken-ichi Kagawa Kensaku Fujii Takao Hinamoto	Proc. Int. Conf. on Fundamentals of Electronics, Communications and Computer Sciences, (2002) pp. 13-1-13-6
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