

## DOCTORAL DISSERTATIONS

(1994.4.1 – 1995.3.31)

Author	Title	Diss. No.	Date
Mogi, Yasuhiro	Microphase separation structures of triblock copolymers of the ABC type (in Japanese)	K866	1994.4.28
Toya, Yorinobu	Experimental study on a Taylor vortex flow in a gap with a small aspect ratio (in Japanese)	R1188	1994.5.9
Sakamoto, Masaaki	Study of Tribology for Engine bearing materials (in Japanese)	R1189	1994.5.9
Tagawa, Tetsuya	Study on cleavage fracture toughness of steels based on the local fracture criterion approach (in Japanese)	R1190	1994.5.9
Wakita, Eiji	Research on settlement control system of earth-structures and its application method (in Japanese)	R1191	1994.5.9
Takahashi, Eiki	Study of high voltage DC insulation in oil-immersed electric power apparatus for HVDC transmission systems (in Japanese)	R1192	1994.6.2
Ikeda, Tadashige	Study about synthesis of voiced sounds using a vocal cord vibration model (in Japanese)	K867	1994.6.27
Kawaguchi, Kiyoshi	Noise reduction of fan for automobile cooling and air conditioning system (in Japanese)	R1193	1994.6.27
Niwa, Takeo	Studies on the measurements of dose equivalent using solid state detectors (in Japanese)	R1194	1994.6.27
Triamlumlerd, Satien	Studies on TAT bandwidth compressed image recording system (in Japanese)	K868	1994.8.8
Sugiura, Masahiro	Adsorption and removal of odorous vapors by sepiolite, active carbon and complexes using them (in Japanese)	R1195	1994.8.10
Yoshino, Akira	Study on estimation of workability of flowing concrete (in Japanese)	R1196	1994.8.10

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Takeuchi, Wataru	Surface structural analysis using three-atom scattering model and computer simulation of 180° low energy ion scattering (in Japanese)	R1197	1994.8.10
Kamabe, Hiroshi	Coding theory for constrained channels	R1198	1994.8.10
Kawashima, Hisato	Study for fast electron's production and transport in Tokamak plasmas by X-ray pulse height analysis (in Japanese)	K869	1994.9.30
Hikosaka, Yukinobu	Studies on diagnostics and surface processes of free radicals in a RF fluorocarbon plasma (in Japanese)	K870	1994.9.30
Mizutani, Masatoshi	Study of distance sensors utilizing large Barkhausen effect in amorphous magnetostrictive wires (in Japanese)	K871	1994.9.30
Yamaga, Masashi	Basic studies on first wall coating of fusion devices with boron and borides thin films (in Japanese)	K872	1994.9.30
Cheng, Xiaohua	Fatigue life evaluation of welded structural members under variable amplitude loadings	K873	1994.9.30
Kitaoka, Satoshi	Study on tribological characteristics of ceramics in high temperature and high pressure water	K874	1994.9.30
Ono, Eiichi	Nonlinear $H^{\infty}$ control theory and its applications to vehicle control (in Japanese)	K875	1994.9.30
Tanaka, Shinji	Vibration characteristics and serviceability design method of pedestrian bridges (in Japanese)	R1199	1994.9.30
Iwata, Yasushi	Study on molten metal behavior and casting defects in die cast process (in Japanese)	R1200	1994.11.4
Ito, Takashi	Study on stability analysis applying strain localization theory on rock mass structures (in Japanese)	R1201	1994.11.4
Kiuchi, Tatsuhiko	The investigation on numerical simulation of flow in large pipeline networks (in Japanese)	R1202	1994.11.30
Ohki, Akira	Study on MOVPE growth of ZnSe based wide band gap semiconductors (in Japanese)	R1203	1994.11.30
Kuroda, Kenichi	Research on control of crystal orientation of $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_x$ oxide superconducting thin film (in Japanese)	R1204	1994.11.30

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Matsuoka, Ryosuke	Insulation characteristics of Insulators for DC transmission lines under contaminated and wet conditions (in Japanese)	R1205	1994.11.30
Tsushima, Sadao	Research on AC-MIG welding technology (in Japanese)	R1206	1994.11.30
Takahashi, Hidemi	Research on CO <sub>2</sub> laser heterodyne detection for plasma diagnostics (in Japanese)	K1207	1994.11.30
Hase, Takashi	Oxygen partial pressure effects on crystal growth in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin film (in Japanese)	R1208	1994.11.30
Ishii, Tetsuro	Nuclear structure in the vicinity of <sup>100</sup> Sn through in-beam $\gamma$ -ray spectroscopy (in Japanese)	R1209	1994.11.30
Hoshizaki, Hiroki	Investigations on crystal growth processes of high-temperature oxide superconductors by means of In-situ observations (in Japanese)	R1210	1994.11.30
Kanemaru, Kimiharu	Study on the development of maintenance information systems for power transmission lines (in Japanese)	R1211	1995.1.10
Nagahara, Shigeru	Selective reactions and molecular recognition using aluminum reagents	R1212	1995.1.10
Hattori, Kouzi	Stereoselective reactions of imines using chiral boron reagents	R1213	1995.1.10
Yamauchi, Hiroaki	Food chemical engineering study of white bread (in Japanese)	R1214	1995.1.10
Doi, Masahiro	Development of the passive radon/thoron discriminative dosimeter for indoor and outdoor surveys	R1215	1995.1.10
Nishio, Gunji	Construction of radioactive materials confinement model during a postulated solvent fire in a nuclear fuel reprocessing plant (in Japanese)	R1216	1995.1.10
Terashima, Keiichi	Study on composition, structures of metal surfaces formed by nitrogen ion implantation and their surface modification (in Japanese)	R1217	1995.1.31

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Morita, Junichi	Study on surface modification and its characteristics about corrosion resistance and weldability function-separated steel material for welded can (in Japanese)	R1218	1995.1.31
Kawasaki, Kenji	Study in freezing-thawing flocculation and solid-liquid separation of organic slurry (in Japanese)	R1219	1995.1.31
Takano, Kenichi	Development and application of methods for analyzing and evaluating human characteristics relating to operator performance in nuclear power plants (in Japanese)	R1220	1995.1.31
Lee, Hong-gyu	Study on compaction properties and strength of gravelly soils (in Japanese)	K876	1995.2.24
Kinoshita, Taizo	A Study on digital HDTV transmission over broadband-ISDN (in Japanese)	R1221	1995.3.1
Nishizawa, Hitoshi	Studies on double-cell type zirconia oxygen sensors (in Japanese)	R1222	1995.3.1
Pag-Asa D. Gaspillo	Mass transfer in-three-phase reactors and application to wastewater treatment	R1223	1995.3.1
Imoto, Katsuyoshi	Nonlinear behavior and impact response of reinforced concrete structures for nuclear power facilities (in Japanese)	R1224	1995.3.1
Yamaha, Motoi	A Study on thermal characteristics and design methodologies of ice storage tanks (in Japanese)	R1225	1995.3.1
Daito, Kenji	Study on prediction methods of groundwater condition change due to human works (in Japanese)	R1226	1995.3.1
Hirota, Kenji	A Study on the extension of applicability in precision shearing (in Japanese)	K877	1995.3.27
Guo, Shuxiang	A Study on the mechanism and control of active catheter system (in Japanese)	K878	1995.3.27
Xue, Guoqing	A Study on self-organizing manipulator (in Japanese)	K879	1995.3.27
Akaike, Hiroyuki	Study on fabrication technology of submicron Nb/AIOx/Nb tunnel junctions using focused ion beam (in Japanese)	K880	1995.3.27

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Inuzuka, Katsumi	A research on measurement of secondary current using amorphous core magnetic field sensor and torque control system for squirrel-cage induction motors (in Japanese)	K881	1995.3.27
Kawai, Takeshi	Studies on noise characteristics of semiconductor laser diodes modulated directly at high bit rates	K882	1995.3.27
Kon, Hiroyuki	Study of space-charge behavior in polyethylene for cable insulation by utilizing laser-Induced-Pressure-pulse technique (in Japanese)	K883	1995.3.27
Naitou, Susumu	Studies on CH <sub>3</sub> radicals in RF-discharge CH <sub>4</sub> plasma	K884	1995.3.27
Masuzaki, Suguru	Experimental study on plasma heat flow to the surface of plasma facing materials (in Japanese)	K885	1995.3.27
Concepcion, Arnel B.	Synthetic utility of small, reactive species/ organoaluminum complex	K886	1995.3.27
Mitsubayashi, Masahiko	Improvement of fatigue strength of transmission gears by carburizing and shot peening (in Japanese)	K887	1995.3.27
Li, Tingju	Effect of imposition of high frequency magnetic field on initial solidification phenomenon in continuous casting (in Japanese)	K888	1995.3.27
Gerardo Rau'l Fernando Alvear	Thermodynamic considerations for elimination of Te, Se, Ni, Zn, and Si from molten copper by using Na <sub>2</sub> CO <sub>3</sub> -based slag	K889	1995.3.27
Zhong, Hui	An electrochemical study on the characteristics of AC etched Al foil for middle or low potential electrolytic capacitor (in Japanese)	K890	1995.3.27
Park, Joon-pyou	A study on the control of the movement of particles in molten metal using electromagnetic force (in Japanese)	K891	1995.3.27
Wang, Li-duo	Behavior of joining interface of ceramic-metal by titanium active metal brazing (in Japanese)	K892	1995.3.27
Kataoka, Akihiro	Combustion characteristics of circulating fluidized bed gas combustor (in Japanese)	K893	1995.3.27

Author	Title	Diss. No.	Date
Kirinaka, Hideyo	Application of genetic engineering to production of useful biological substances by mammalian cells	K894	1995.3.27
Kyu, Kyu-win	Studies on gas solid flow structure in multi-solid fluidized bed	K895	1995.3.27
Wang, Jin	A study on efficient production of useful therapeutical proteins in mammalian cell culture	K896	1995.3.27
Asano, Yasuhiro	Theory of magnetoresistance in nano-structure magnetic systems (in Japanese)	K897	1995.3.27
Asahata, Tetsuro	Variational Monte Carlo study of ground state and phase diagram in high temperature superconducting cuprates (in Japanese)	K898	1995.3.27
Itoh, Hiroyoshi	Theory of electronic structure, magnetism and transport phenomena in magnetic superlattices (in Japanese)	K899	1995.3.27
Iwai, Shinichiro	A study of relaxation processes of photoexcited electrons and holes in alkali halides by ultrafast laser spectroscopy (in Japanese)	K900	1995.3.27
Yamane, Yuuichi	Numerical simulation of concentrated suspensions of rodlike particles in shear flow	K901	1995.3.27
Sakai, Yoshinaga	Study on fatigue in steel structures and repair (in Japanese)	K902	1995.3.27
YU, Guoxiong	The Analysis of localized failures of reinforced concrete structures	K903	1995.3.27
Kang, Yoon-koo	Nonlinear behavior of two crossing waves (in Japanese)	K904	1995.3.27
Kim, Chang-je	Local scouring around multiple large cylindrical structures under wave actions (in Japanese)	K905	1995.3.27
SHI, Jing	A methodological study on public transportation network planning, operation and management using combined equilibrium models	K906	1995.3.27
Pokharel, Gyaneswor	Deformation and ultimate load of reinforced soil structures,theory and experiment	K907	1995.3.27

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Teofilo, Monge Rufin Jr.	Stability and wave force of armor rubble stone of a submerged wide-crown breakwater	K908	1995.3.27
Teranishi, Kohji	Study on behavior of fresh concrete passing through narrow space and subjected to vibration (in Japanese)	K909	1995.3.27
Hotta, Yoshihiro	A study on the suburban developments around nagoya in the modern age (in Japanese)	K910	1995.3.27
Yamada, Kouji	Studies on the application of three- dimensional elastic theory to thick cylindrical shells (in Japanese)	K911	1995.3.27
Cheng, Tsung-jung	The study of the sanitation management and architectural planning in hospitals –focusing on comparison of Japan, Korea and Taiwan– (in Japanese)	K912	1995.3.27
Ikuta, Tomohiko	Systematic $Q\beta$ measurements of neutron- rich isotopes in the mass region $147 \leq A \leq 152$ (in Japanese)	K913	1995.3.27
Yang, Jun	Recovery of object shape and reflectance from shading	K914	1995.3.27
Hayashi, Kenichi	Growth and electrical properties of $\text{Si}_{1-x}\text{Ge}_x$ films on (100) Si substrates (in Japanese)	K915	1995.3.27
Hidaka, Yoshiki	Dynamics of nonlinear-nonequilibrium patterns in a liquid crystal (in Japanese)	K916	1995.3.27
Nakazawa, Nahoko	Impacts of urban-rural relationships on the environment –A comparative study of Thailand, Japan and Germany– (in Japanese)	K917	1995.3.27
Nozu, Mitsuo	A study on improvement soft soil with the use of vertical sand piles, theory and application (in Japanese)	K918	1995.3.27
Saito, Fuminori	Motion control of the brachiation-type mobile robot (in Japanese)	K919	1995.3.27
Doki, Shinji	Analysis and realization of vector control of induction machines using flux observers (in Japanese)	K920	1995.3.27
Hirokawa, Kazuharu	Study on vibrations of cracked rotors (in Japanese)	K921	1995.3.27

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Yamada, Koji	Contact motion control of robotic manipulators using learning method (in Japanese)	K922	1995.3.27
Shin, Jeong-ho	Robust motion control of robot using two-degree-of freedom compensator (in Japanese)	K923	1995.3.27
Zhu, Xue-lei	An Analytical study of a concave tubular flame (in Japanese)	K924	1995.3.27
Yokota, Hitoshi	Estimation of wettability in materials-interface by interfacial impedance method (in Japanese)	K925	1995.3.27
Zeng, Wei-ping	A study on transportation of high-temperature thermal energy using reversible thermochemical reaction (in Japanese)	K926	1995.3.27
Saito, Yoshihiro	A study on time-discrete approximations for stochastic differential equations (in Japanese)	K927	1995.3.27
Sasaki, Minoru	Development of atomic force microscope using heterodyne interferometry and its application	K928	1995.3.27
Fujita, Hideki	Development of advanced techniques for more flexible operation of large power systems (in Japanese)	K929	1995.3.27
Matoba, Tetsu	Researches on various problems due to micro plastic deformation in manufacturing processes of steel products (in Japanese)	K930	1995.3.27
Niwa, Hideharu	Study on optimum design and control of air-conditioning and energy system by means of simulation (in Japanese)	K931	1995.3.27
Yuhara, Junji	Atomic structures and compositions of monolayer single and binary noble metal adsorbates on the Si(111) surface	K932	1995.3.27
Ishihara, Hidenori	A study on distributed autonomous micro robotic system (in Japanese)	K933	1995.3.27
Nishizawa, Norihiko	Studies on generation and characterization of quadrature squeezed light with fiber loop mirror	K934	1995.3.27
Andoh, Eiji	Study on eigenvalue determination scheme by boundary element method (in Japanese)	K935	1995.3.27



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Menju, Shinichi	High voltage insulation of SF <sub>6</sub> gas insulated switchgear (GIS) (in Japanese)	R1227	1995.3.27
Kume, Michiyuki	Fundamental studies on the Functional alloy plating (in Japanese)	R1228	1995.3.27
JI, Yong kang	Electrochemical examination of high brightness non-cyanide silver electroplating in sulfite silver system (in Japanese)	R1229	1995.3.27