LIST OF PAPERS BY MEMBERS OF EARTHQUAKE RESISTANT STRUCTURES RESEARCH CENTER

SEISAN-KENKYU : Monthly Journal of the Institute of Industrial Science,

University of Tokyo

JSCE : The Japan Society of Civil Engineering
JSME : The Japan Society of Civil Engineering

AIJ : The Architectural Institute of Japan

JCI : Japan Concrete Institute

JSSC : The Japan Society of Steel Construction

JSSMFE : The Japan Society of Soil Mechanics and Foundation

Engineering

: Written in Japanese

H. KIM, F. KUMAZAWA, Y. NAKANO and T. OKADA: "Seismic Tests of Slab-Column Connections of Flat Plate Construction Using High Strength Concrete," Bulletin of Earthquake Resistant Structure Research Center, No.27, pp.53-67, Institute of Industrial Science, University of Tokyo, March 1994.

- * Y. SAKAI, A. TASAI, F. KUMAZAWA and T. KASHIWAZAKI: "Damage to Buildings Caused by the 1993 Kushiro-oki Earthquake," Bulletin of The Earthquake Research Institute, pp.243-291, University of Tokyo, March 1994.
- Y. NAKANO: "Seismic Capacity of Reinforced Concrete Apartment Buildings Damaged due to 1992 Erzincan Earthquake, Turkey," Bulletin of Earthquake Resistant Structure Research Center, No.27, pp.41-51, Institute of Industrial Science, University of Tokyo, March 1994.
- * Y. NAKANO: "Seismic Retrofitting of Reinforced Concrete Buildings in Japan," SEISAN-KENKYU, Vol.46, No.4, pp.16-21, Institute of Industrial Science, University of Tokyo, April 1994.
- * K. LEE, F. KUMAZAWA, Y. NAKANO and T. OKADA: "Seismic Capacity of Reinforced Concrete Building Damaged by 1993 Hokkaido Nansei-oki Earthquake," SEISAN-KENKYU, Vol.46, No.10, pp.15-18, Institute of Industrial Science, University of Tokyo, October 1994.
- * K.KUSU, T.OKADA, Y. NAKANO and F. KUMAZAWA: "The Effect of Vertical Excitation on Response Characteristics of Structures," SEISAN-KENKYU, Vol.46, No.10, pp.19-22, Institute of Industrial Science, University of Tokyo, October 1994.

- * T. OKADA, F. KUMAZAWA and others: "Complication between Traditional and Modern Elements from the View Point of Architectural Structure and Dwelling Form of Housing / Possibility of the Utilization (1) -International Comparison between Japan, Mexico and Indonesia in Modernization-," Research Report, No.20, pp.79-98, Housing Research Foundation, March 1994.
- * T. OKADA, M. MURAKAMI and Y. NAKANO: "Quick Report Hokkaido Nansei-oki Earthquake on July 12, 1993," Research on Earthquake Disaster Prediction, No.36, pp.117-208, Fire and Marine Insurance Rating Association of Japan, March 1994.
- * Y. NAKANO: "Quick Report on the 1994 Northridge Earthquake," Journal of Japan Concrete Institute, Vol.32, No.4, pp.4-6, April 1994.
- * Y. NAKANO: "Report on Damage to Buildings due to the 1994 Northridge Earthquake," Journal of Building Disaster Prevention, No.196, pp.12-21, The Japan Building Disaster Prevention Association, June 1994.
- * T. OKADA, M. MURAKAMI and M. TESHIGAWARA: "Structural Design Concept of New RC Building," Journal of Japan Concrete Institute, Vol.32, No.10, pp.36-44, October 1994.
- * T. OKADA: "Concrete Texture," Journal of Japan Concrete Institute, Vol.32, No.11, pp.1, November 1994.
- * T. OKADA: "Earthquake Countermeasures for Buildings," Japanese Scientific Monthly, Vol.47, No.12, pp.1329-1332, Japan Society for the Promotion of Science, December 1994.
- * S. IKEDA, T. OKADA and others: Discussion: "The Present and the Future of Concrete Technology in Composite and Mixed Structures," Journal of Japan Concrete Institute, Vol.33, No.1, pp.13-30, January 1995.
- * T. OKADA: "Earthquake Countermeasures of Buildings," Journal of Japan Concrete Institute, Vol.33, No.2, pp.5-10, February 1995.
- Y. NAKANO, K. KABAYAMA, M. TOYOSHIMA, F. KUMAZAWA and T. OKADA: "Comparison Between On-line Tests and Shaking Table Tests of R/C Structures," THEORETICAL AND APPLIED MECHANICS, Proceedings of the 43rd Japan National Congress for Applied Mechanics, 1994, No.43, pp.57-64, Hokusen-Sha, November 1994.
- Y. NAKANO and D. KATO: "Seismic Capacity of Reinforced Concrete Apartment Buildings Damaged due to 1992 Erzican Earthquake, Turkey," Proceedings of the Ninth Japan Earthquake Engineering Symposium, 1994, No.43, pp.163-168, December 1994.
- T. OKADA and Y. NAKANO: "Seismic Risk Assessment of Buildings in an Earthquake Prone Area in Japan." Proceedings of First Cairo Earthquake Symposium, Egyptian Society of Earthquake Engineering, December 1994.

- * T. ISHIKAWA, C. NODA, F. KUMAZAWA and T. OKADA: "Meaning of Words Expression Sensation for Horizontal Vibration," Journal of Architectural Planning and Environmental Engineering, AIJ, No.455, pp.9-16, January 1994.
- * F. KUMAZAWA, Y. HOSOKAWA, S. SHIMADA, H. INOUE and A. SAITO: "Report on Damage due to Guam Earthquake on August 8,1993," Journal of Building Disaster Prevention, No.193, pp.29-34, The Japan Building Disaster Prevention Association, February 1994.
- * C. NODA, T. ISHIKAWA, F. KUMAZAWA and T. OKADA: "Serviceability Limit for Wind Induced Motions Considering Visual Stimulus (Part 2 Characteristics of Sense to Horizontal Vibration Considering Visual Stimulus and Allowable Limit)," Proceedings of the Annual Transactions of AIJ, Kanto Branch, Structural and Construction Engineering, No.64, pp.13-16, March 1994.
- * H. KIM, F. KUMAZAWA, Y. NAKANO and T. OKADA: "Seismic Tests of Slab Column Connections of Flat Plat Construction Using High Strength Concrete," Proceedings of the Annual Transactions of AIJ, Kanto Branch, Structural and Construction Engineering, No.64, pp.113-116, March 1994.
- * C. NODA, T. ISHIKAWA, F. KUMAZAWA and T. OKADA: "Characteristics of Words Expressing Sensation for Horizontal Vibration Considering Visual Stimulus," Proceedings of the Annual Transactions of AIJ, Kanto Branch, Environmental Engineering, No.64, pp.177-180, March 1994.
- * T. ISHIKAWA, C. NODA, F. KUMAZAWA and T. OKADA: "A Study on Serviceability Limit for Wind-Induced Motions in Consideration of Visual Stimulus," Journal of Structural Engineering, AIJ, Vol.40B, pp.1-6, April 1994.
- * K. KABAYAMA, M. TOYOSHIMA, F. KUMAZAWA, Y. NAKANO and T. OKADA: "Online Tests of R/C Frame Structures -Comparison with a Shaking Table Test-," Journal of Structural Engineering, AIJ, Vol.40B, pp.345-350, March 1994.
- * R. NUMATA, T. ISHIKAWA, C. NODA, F. KUMAZAWA and T. OKADA: "Effects of Difference in Visual Objects on Sense of Horizontal Vibration (Part 1 Outline of the Experiment and Analysis on Order of Presenting Object)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.B, pp.25-26, September 1994.
- * T. ISHIKAWA, C. NODA, F. KUMAZAWA and T. OKADA: "Effects of Difference in Visual Objects on Sense of Horizontal Vibration (Part 2 Analysis on Difference in Methods of the Experiment and Physical Elements of Vibration)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.B, pp.27-28, September 1994.
- * Y. NAKANO, K. KUSU, T. OKADA and F. KUMAZAWA: "The Effect of Vertical Excitation on Response Characteristics of Structures (Part 1 Characteristics of Vertical Ground Motion)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.B, pp.677-678, September 1994.

- * K. KUSU, Y. NAKANO, T. OKADA and F. KUMAZAWA: "The Effect of Vertical Excitation on Response Characteristics of Structures (Part 2 Dynamic Inelastic Analysis under Bi-Directional Excitation), "Summaries of Technical Papers of Annual Meeting, AIJ, Vol.B, pp.679-680, September 1994.
- * M. TAKUMA, F. KUMAZAWA, Y. NAKANO and T. OKADA: "Variation of Earthquake Response due to Uncertainties of Structural Characteristics (Part 1 Relationship between Response Spectrum and Variation of Natural Period)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.B, pp.733-734, September 1994.
- * K. KABAYAMA, M. TOYOSHIMA, F. KUMAZAWA, Y. NAKANO and T. OKADA: "Displacement Control Errors in An On-line Test," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.B, pp.1159-1160, September 1994.
- * K. LEE, T. OKADA, Y. NAKANO and F. KUMAZAWA: "Seismic Performance of Reinforced Concrete Buildings Damaged by 1993 Hokkaido Nansei-oki Earthquake," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.C, pp.229-230, September 1994.
- * H. INOUE, A. SAITO, Y. HOSOKAWA and F. KUMAZAWA: "Damage Caused by Guam Earthquake on August 8,1993 (Part 1 Outline of Damage)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.C, pp.231-232, September 1994.
- * H. HOSOYA, F. KUMAZAWA and T. OKADA: "Effect of Strain on Strength and Failure Mode of Reinforced Concrete Members (Part 5 Fiber Model Analysis)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.C, pp.393-394, September 1994.
- * F. KUMAZAWA, H. KIM, Y. NAKANO and T. OKADA: "Seismic Tests of Slab Column Connections of Flat Plat Construction Using High Strength Concrete (Part 1 Test Synopsis and Test Results)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.C, pp.589-590, September 1994.
- * H. KIM, F. KUMAZAWA, Y. NAKANO and T. OKADA: "Seismic Tests of Slab Column Connections of Flat Plat Construction Using High Strength Concrete (Part 2 Discussion about Test Results)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.C, pp.591-592, September 1994.
- * K. HAMANAKA, T. ISHIKAWA, C. NODA, F. KUMAZAWA and T. OKADA: "Verbal Expression of Sense to Horizontal Vibration in Consideration of Visual Stimulus (Part 1 Characteristics of Words Based on Semantic Differential Method)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.D, pp.1903-1904, September 1994.
- * E. KAJITA, T. ISHIKAWA, C. NODA, F. KUMAZAWA and T. OKADA: "Verbal Expression of Sense to Horizontal Vibration in Consideration of Visual Stimulus (Part 2 Relation between Words and Physical of vibration)," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.D, pp.1905-1906, September 1994.

- * K. KABAYAMA, M. TOYOSHIMA, F. KUMAZAWA, Y. NAKANO and T. OKADA: "Displacement Control Errors on On-line Tests (The Effect of Undershooting Error)," Proceedings of the Ninth Japan Earthquake Engineering Symposium, 1994, No.2, pp.1519-1524, December 1994.
- * Y. NAKANO, K. OAMI, Y. SAKAI, M. MAEDA and H. SHIOHARA: "Quick Report on the 1994 Northridge Earthquake," February 1994.
- * F. KUMAZAWA and others: "Report on the Damage Investigation of the 1993 Guam Earthquake," AIJ, September 1994.
- * F. KUMAZAWA, K. KUSU and K. KOMAE: "Report on the Damage Hokkaido Toho-oki Earthquake on October 4, 1994," October 1994.
- * T. OKADA, Y. NAKANO, F. KUMAZAWA, T. IDE, K. KUSU and others: "A Study on Failure of Reinforced Concrete Building Structure by Strong Motion," July 1994.
- * K. Konagai: "Visualization of Change in the Fabric of Granular Assemblage by means of the Laser-Aided Tomography," SEISAN-KENKYU, Vol. 46, No. 8, pp. 1-7, 1994.
- * A. Mikami and K. Konagai: "Simple Evaluation of Dynamic Cross-Interaction between Two Embedded Bodies," SEISAN-KENKYU, Vol. 46, No. 10, pp. 10-14, 1994.
- K. Konagai, T. Matsushima and T. Sato: "Dependence on Frequency of Dynamic Inter-Particle Dislocation Within a Slope," Structural Eng./Earthquake Eng., JSCE, Vol. 11, No. 2, pp. 93s-101s, 1994.
- K. Konagai and T. Nogami: "Subgrade Model for Transient Response Analysis of Multiple Embedded Bodies," Int. Jour. of Earthquake Engineering and Structural Dynamics, Vol. 23, pp. 1097-1114, 1994.
- * G. Han, X. Kong, K. Konagai and T. Zhu: "Dynamic Response Characteristics and Failure Process of a Rockfill Dam on a Thick and Inhomogeneous Soil Deposit," The Ninth Japan Earthquake Engineering Symposium, Vol. 2, pp. 1231-1236, 1994.
- X. Kong, C. Tamura and K. Konagai: "Numerical Analysis of Dynamic Progressive Failure of Concrete-Faced Rockfill Dams," The Ninth Japan Earthquake Engineering Symposium, Vol. 3, pp. E199-E204, 1994.
- A. Nourzad and K. Konagai: "Effect of Degree of Saturation on the Impedance of a Rigid Circular Disk on a Semi-Infinite Porous Medium," The Ninth Japan Earthquake Engineering Symposium, Vol. 3, pp. E289-E294, 1994.

- P. Rangelow, K. Konagai, T. Namikawa and T. Katagiri: "An Experimental Study on the Loading Rate Effect on Bearing Capacity of Footings on Submerged Sand," The Ninth Japan Earthquake Engineering Symposium, Vol. 3, pp. E307-E312, 1994.
- A. Mikami, K. Konagai, J. Sayama and C. Tamura: "Simple Approach for the Evaluation of Dynamic Cross-Interaction Between Closely-Spaced Embedded Structures," The Ninth Japan Earthquake Engineering Symposium, Vol. 3, pp. E277-E282, 1994.
- * T. Sato and K. Konagai: "Dynamic Failure Process of a Slope Made up of Coarse Particles," The Ninth Japan Earthquake Engineering Symposium, Vol. 1, pp. 973-978, 1994.
- P. Rangelow, K. Konagai and T. Namikawa: "Real-Time Observation of the Inner Deformation and Failure Process in a Bearing Capacity Test," 49th Annual Convention of JSCE, 3-A, pp. 772-773, 1994.
- * T. Sato and K. Konagai: "Dynamic Failure of Embankment made up of Course Particles," 49th Annual Convention of JSCE, 1-B, pp. 880-881, 1994.
- * A. Mikami and K. Konagai: "A simple evaluation of dynamic cross-interaction between two embedded foundations," 49th Annual Convention of JSCE, 1-B, pp. 1632-1633, 1994.
- * X. Luo and K. Konagai: "Simple Approach for Evaluation of Time-Domain Response of Pile Under Dynamic Load," 49th Annual Convention of JSCE, 1-B, pp. 1648-1649, 1994.
- * T. Fujita, M. Yonezawa, K. Tanaka, H. Ohyama, Y. Nakamura, H. Miyano and M. Suganuma: "Fundamental Study of Hybrid Mass Dampers with Convertible Active and Passive Modes Using Servomotors for Vibration Control of Tall Buildings," Trans. of JSME, Vol.60, No.572, pp.1195-1202, April 1994.
- T. Fujita: "Application of Hybrid Mass Damper with Convertible Active and Passive Modes using Hydraulic Actuator to High-Rise Building," Proc. of the 1994 American Control Conference, Vol.1 of 3, pp.1067-1072, Baltimore, U.S.A., June/July 1994.
- T. Fujita, T. Kamada, N. Masaki and Y. Suizu: "Development of Hybrid Mass Damper with Convertible Active and Passive Modes using Hydraulic Actuator and Multistage Rubber Bearing," First World Conf. on Structural Control, Pasadena, U.S.A., August 1994.
- T. Fujita, T. Kamada, T. Teramoto, H. Kitamura, Y. Suizu, N. Masaki, T. Kanno and H. Kawachi: "Application of Hybrid Mass Damper using Hydraulic Actuator and Multistage Rubber Bearing to High-Rise Building," First World Conf. on Structural Control, Pasadena, U.S.A., August 1994.
- T. Fujita, N. Shimazaki, K. Tanaka H. Ohyama, Y. Nakamura, K. Murakoshi, H. Hora and H. Miyano: "Development of Hybrid Mass Damper with Convertible Active and Passive Modes using AC-Servomotor for Vibration Control of Tall Buildings," First World Conf. on Structural Control, Pasadena, U.S.A., August 1994.

- H. Ohyama, K. Tanaka, N. Arai, Y. Ishiguro, M. Ishii, K. Murakoshi, Y. Nakamura, H. Miyano, H. Hora and T. Fujita: "Practical Application of Hybrid Mass Damper using AC-Servomotor for Vibration Control of a Slender Tall Building," First World Conf. on Structural Control, Pasadena, U.S.A., August 1994.
- Y. Nakamura, K. Tanaka, M. Ishii, M. Hirasawa, M. Nakayama, H. Ohyama and T. Fujita: "Fault Diagnosis Method using Energy Absorbing Performance for Hybrid Mass Damper for Vibration Control of Tall Buildings," First World Conf. on Structural Control, Pasadena, U.S.A., August 1994.
- S. Fujita, O. Furuya, T. Fujita, Y. Suizu, Y. Kasahara, T. Teramoto and H. Kitamura: "Dynamic Tests on High-Damping Rubber Damper for Vibration Control of Tall Buildings," First World Conf. on Structural Control, Pasadena, U.S.A., August 1994.
- Y. Tagawa, Y. Seino, M. Yasuda and T. Fujita: "Active 6DOF Microvibration Control System Using Air Actuators," Second Int. Conf. on Motion and Vibration Control, Yokohama, Japan, September 1994.
- T. Fujita: "Semi-Active Control of Base-Isolated Structures," IUTAM Symposium "The Active Control of Vibration", Bath, U.K., September 1994.
- * T. Fujita, M. Shimazaki, K. Tanaka, H. Ohyama, Y. Nakamura, K. Murakoshi, H. Hora and H. Miyano: "Large-Scale Model Experiment of Hybrid Mass Damper with Convertible Active and Passive Modes Using Servomotor for Vibration Control of Tall Buildings," Trans. of JSME, Vol.60, No.579, pp.3755-3761, November 1994.
- * T. Fujita, T. Kamada, T. Teramoto, H. Kitamura, Y. Suizu, N. Masaki, T. Kanno and H. Kawauchi: "Implementation of Hybrid Mass Damper with Convertible Active and Passive Modes Using Multistage Rubber Bearing and Hydraulic Actuator for Vibration Control of Tall Buildings," Trans. of JSME, Vol.60, No.580, pp.4107-4115, December 1994.
- * T. Kamada, T. Fujita and N. Masaki: "Hybrid Mass Damper with Convertible Active and Passive Modes Using Multistage Rubber Bearing and Hydraulic Actuator for Vibration Control of Tall Buildigns, (1st Report, Control Scheme Considering Operational Limit of Actuator due to Pressure Drop in Hydraulic System)," Trans. of JSME, Vol.61, January 1995.
- * T. Kamada, T. Fujita and N. Masaki: "Hybrid Mass Damper with Convertible Active and Passive Modes Using Multistage Rubber Bearing and Hydraulic Actuator for Vibration Control of Tall Buildigns, (2nd Report, Control Scheme Considering Operational Limit of Actuator due to shortage of Stroke or Saturation of Control Force)," Trans. of JSME, Vol.61, 1995.
- * T. Fujita, K. Miyazaki, N. Murai, S. Aizawa, M. Yamamoto and K. Tohyama: "Active Vibration Control of a Beam with Smart Structure using Piezoelectric Actuator of Stack Type," Trans. of JSME, Vol.61, 1995.

- T. Fujita, K. Kajiwara, H. Yoshioka, A. Takeshita and M. Yasuda: "Active Microvibration Control System with Elastic Vibration of Equipment Table System," 5th Int. Conf. on Adaptive Structures, Sendai, Japan, December 1994.
- M. Hayatsu, K. Kajiwara, K. Asami, A. Takeshita and T. Fujita: "Active 6-DOF Microvibration Control System Using Piezoelectric Actuators Applied to Semiconductor Manufacturing Device," 5th Int. Conf. on Adaptive Structures, Sendai, Japan, December 1994.
- Y. Toi and J.-S. Che: "Computational Damage Mechanics Models for Brittle Microcracking Solids Based on Mesoscopic Simulations," Engineering Fracture Mechanics, Vol.48, No.4, pp.483-498, July 1994.
- Y. Toi and J.-S. Che: "Mesoscopic Simulation of Microcracking Behavior of Brittle Polycrystalline Solids (1st report: Study of isotropic theory in continuum damage mechanics)," JSME International Journal, Series A, Vol.37, No.3, pp.434-441, October 1994.
- Y. Toi and J.-S. Che: "Mesoscopic Simulation of Microcracking Behavior of Brittle Polycrystalline Solids (2nd report: Study of anisotropic theory in continuum damage mechanics)," JSME International Journal, Series A, Vol.37, No.3, pp.442-449, October 1994. List of Papers (Toi Lab.)
- Y. Toi, K. Kobashi and T. Iezawa: "Finite Element Analysis of Thermal Elasto-Plastic Behaviors of Bridge Girders in Hot-Dip Galvanization," Computers and Structures, Vol.53, No.6, pp.1307-1316, December 1994.
- Y. Toi and T. Kiyosue: "Damage Mechanics Models for Brittle Microcracking Solids Based on Three-Dimensional Mesoscopic Simulations," Engineering Fracture Mechanics, Vol.50, No.1, pp.11-27, March 1995.
- Y. Toi and T. Kiyosue: "Damage Mechanics Models for Brittle Microcracking Solids Based on 3-D Mesoscopic Simulations," Proceedings of the 3rd World Congress on Computational Mechanics, Vol.2, pp.1403-1404, August 1994.
- Y. Toi, K. Kobashi and T. Iezawa: "Finite Element Analysis of Thermal Deformations of Bridge Girders in Hot-Dip Galvanization," Proceedings of the 3rd World Congress on Computational Mechanics, Vol.2, pp.1692-1693, August 1994.
- Y. Toi and D. Isobe: "Adaptively Shifted Integration Technique for Nonlinear Finite Element Analysis of Framed Structures," Proceedings of the 3rd World Congress on Computational Mechanics, Vol.2, pp.1682-1683, August 1994.
- C. Zavala, K.Ohi and K.Takanashi: "Substructuring Hybrid Simulation on Earthquake Responses of 2D Frames", Proceedings of the Ninth Japan Earthquake Engineering Symposium, Vol.3, pp.E169-E174, December 1994.

- C. Zavala, K.Ohi and K.Takanashi: "A General Testing Scheme for On-line Hybrid Substructuring Simulation on Planar Moment Frames", Journal of Structural Engineering, AIJ, Vol.41B, March 1995.
- C. Zavala, K.Ohi and K.Takanashi: "Neuro Hybrid Substructuring on-line Test on Planar Moment Frames", Proceedings of the 4th International Conference on Inspection, Appraisal, Repaies and maintenance of Buildings and Structures, March 1995.

K.Ohi and K.Takanashi: "Resistance vs. Resistance Reliability -An Application toSteel Connection Design", Proceedings of Australasian Structural Engrg. Conf. 1994.Sydney, pp.1107-1112, September 1994.

K.Ohi and K.Takanashi: "Resistance Deterioration during Earthquakes Compiled in Earthquake Response Test Database on Steel Frames", Proceedings of International Workshop and Seminar on Behaviour of Steel Structures in Seismic Areas (STESSA '94), pp.3.45-3.54, June 26-July 1 1994.

T.Miyamura, K.Oda and Y.Hangai, "Experiment on the Wrinkling of Circular Membranes under Torsion", Bulletin of Association of Membrane Structures, No.7, 1-9,1993.

A.NISHIDA, Y. HANGAI: "WAVE PROPAGATION OF SINGLE LAYER LATTICE DOMES", Bulletin of Earthquake Resistant Structure Research Center, No. 27,69-87,1994.

Ken-ichi Kawaguchi, Hiroshi Furuya, Sergio Pellegrino: "Shape and Stress Control of Prestressed Truss Structures", University of Cambridge, Department of Engineering, Technical Report, CUED/D-STRUCT/TR.145,1994.

Y.Hangai, "Shape Analysis for Structural Engineering", Journal of Architecture and Building Science, Vol.109,No.1356,23,AIJ,April, 1994.

G. Yagawa and Y. Hangai, "Foundation of FEM", Asakura-Shoten Pulishers, 1994.

Ken-ichi Miyazaki, Yasuhiko Hangai, Ken-ichi Kawaguchi, "Dynamic Analysis of Unstabel Structural Systems with Prescribed Velocities", Spatial, Lattice and Tension Structures, edited by J.F.Abel, J.W.Leonard and C.U.Penalba, ASCE, 239-248, April, 1994.

Yasuhiko Hangai, Kazuaki Harada, "Structural Shape Analysis under the Prescribed Displacement Mode", Spatial, Lattice and Tension Structures, edited by J.F.Abel, J.W.Leonard and C.U.Penalba, ASCE, 694-703, April, 1994.

Tetsuyuki Tanami, Yasuhiko Hangai, "Direct and Modal Analyses for Shape-Finding of UnstAbel Structures", Spatial, Lattice and Tension Structures, edited by J.F.Abel, J.W.Leonard and C.U.Penalba, ASCE, 714-723, April, 1994.

Akemi Nishida, Yasuhiko Hangai, "Wave Propagation Properties of Lattice Structures -a Research of Structural Damping-", Extended Abstracts, The Third Congress on Computational Mechanics, Vol. 1,75-76, IACM, Aug. 1994.

Yasuhiko Hangai, "Shape Analysis of Structures", Extended Abstracts, The Third Congress on Computational Mechanics, Vol. 2, 1062-1067, IACM, Aug. 1994.

Ken-ichi Kawaguchi, Kenji Nabana, Yasuhiko Hangai, "Bifurcation Problems in Folding Analysis of Spatial Structures", Extended Abstracts, The Third Congress on Computational Mechanics, Vol. 2,1267-1268, IACM, Aug. 1994.

Kok Keong Choong, Tomoshi Miyamura, Yasuhiko Hangai, "Analysis of a Link-Spring Model with Infinite Bifurcation Paths", Extended Abstracts, The Third Congress on Computational Mechanics, Vol. 2, 1308-1309, IACM, Aug. 1994.

Tomoshi Miyamura, Kok Keong Choong, Yasuhiko Hangai, "Bifurcation Analysis of Circular Membrane with Infinite Phase-Shifted Wrinkling Modes", Extended Abstracts, The Third Congress on Computational Mechanics, Vol. 2, 1314-1315, IACM, Aug. 1994.

Toshio Suzuki, Yasuhiko Hangai, "Form Finding of Differently Stressed Surface for Membrane Structure", Extended Abstracts, The Third Congress on Computational Mechanics, Vol.2, 1745-1746, IACM, Aug. 1994.

S.D.Kim,M.M.Kang,T.J.Kwun,Y.Hangai, "Damping Influence of Simple Shell-Like Shallow Models to Dynamic Buckling", Proceedings of the Second International Conference in Computational Structures Technology, Athens, Greece, Aug. 1994.

F.Tatsuoka, T.Sato, C.-S.Park, Y.-S.Kim, J.N.Mukabi and Y.Kohata: "Measurements of elastic properties of geomaterials in laboratory compression tests", Geotechnical Testing Journal, Vol. 17, No. 1, pp. 80-94, March 1994.

F.Tatsuoka, Y.Kohata, H.Karoji and A.Miyashita: "Stiffness of the ground improved to support the pier of JNLT atop Mauna Kea", SPIE's 1994, Symp. on Astronomical Telescopes & Instrumentation for the 21st Century, March 1994.

F.Tatsuoka, Y.Kohata, T.Tsubouchi, K.Murata, K.Ochi and L.Wang: "Sample disturbance in rotary core tube sampling of softrock", Conf. on Advances in Site Investigation Practice, Institution of Civil Engineers, March 1995.

C.-C.Huang,F.Tatsuoka and Y.Sato: "Failure mechanisms of reinforced sand slopes loaded with a footing", Soils and Foundations,Vol.34,No.2,pp.27-40,June 1994.

S.Shibuya, C.-S.Park, F.Tatsuoka, F.Abe, S.Teachavorasinskun, Y.Kohata and T.Sato: "The significance of local lateral-strain measurement of soil specimens for a wide range of strain", Soils and Foundations, Vol. 34, No. 2, pp. 95-105, June 1994.

- M.S.A.Siddiquee, T.Tanaka and F.Tatsuoka: "Settlement prediction of spread footing based on laboratory test results", Predicted and measured behavior of five spread footings on sand, A.S.C.E., Geotechnical Special Publication No.41, pp. 137-140, June 1994.
- E.Hoque, Y.Kamegai, M.S.A.Siddiquee, Y.Kohata and F.Tatsuoka: "Cross-anisotropic elasticity of sands by large triaxial tests measuring local strains", Proc. of 29th Annual Conf. of JSSMFE, 1, pp. 409-412, June 1994.
- G.L.Jiang, A.Flora, Y.Kohata and F.Tatsuoka: "Deformation characteristics of dense gravel at small strains in triaxial tests", Proc. of 29th Annual Conf. of JSSMFE, 1, pp. 691-694, June 1994.
- J.N.Mukabi, F.Tatsuoka, Y.Kohata and N.Akino: "Stiffness and effects of sample disturbance of stiff clay by triaxial tests", Proc. of 29th Annual Conf. of JSSMFE, 1, pp. 577-580, June 1994.
- M.S.A.Siddiquee,F.Tatsuoka,O.Yoshida,S.Yamamoto and T.Tanaka: "Simulation of plate loading tests on sedimentary soft rock (sandstone)", Proc. of 29th Annual Conf. of JSSMFE,2,pp.1257-1260,June 1994.
- H.I.Ling and F.Tatsuoka: "Performance of anisotropic geosynthetic-reinforced cohesive soil mass", Journal of Geotechnical Engineering, A.S.C.E., Vol. 120, No. 7, pp. 1166-1184, July 1994.
- F.Tatsuoka, S.Teachavorasinskun, J.Dong, Y.Kohata and T.Sato: "Importance of measuring local strains in cyclic triaxial tests on granular materials", Dynamic geotechnical testing II, ASTM, STP 1213, pp.288-302, August 1994.
- C.-C.Huang and F.Tatsuoka: "Stability analysis for footings on reinforced sand slopes", Soils and Foundations, Vol.34, No.3, pp.21-37, September 1994.
- S.Goto, C.-S.Park, F. Tatsuoka and F. Molenkamp: "Quality of the lubrication layer used in element tests on granular materials (closure)", Soils and Foundations, Vol. 34, No. 3, p. 108, September 1994.
- Y.-S.Kim,F.Tatsuoka and K.Ochi: "Deformation characteristics at small strains of sedimentary soft rocks by triaxial compression tests", Geotechnique, Vol. 44, No. 3, pp. 461-478, September 1994.
- Y.Kohata,F.Tatsuoka,J.Dong,S.Teachavorasinskun and K.Mizumoto: "Stress states affecting elastic deformation moduli of geomaterials", Pre-failure deformation of geomaterials, A.A.Balkema, 1, pp.3-9,September 1994.
- J.Dong,K.Nakamura,F.Tatsuoka and K.Kohata: "Deformation characteristics of gravels in triaxial compression tests and cyclic triaxial tests", Pre-failure deformation of geomaterials, A.A.Balkema, 1,pp.17-23,September 1994.

S.Teachavorasinskun, F.Tatsuoka and D.C.F.Lo Presti: "Effects of the cyclic prestraining on dilatancy characteristics and liquefaction strength of sand", Pre-failure deformation of geomaterials, A.A.Balkema, 1, pp. 75-80, September 1994.

J.N.Mukabi, F. Tatsuoka, Y. Kohata, T. Tsuchida and N. Akino: "Small strain stiffness of Pleistocene clays in triaxial compression", Pre-failure deformation of geomaterials, A.A. Balkema, 1, pp. 189-195, September 1994.

K.Miyazaki,R.A.Hameed,Y.Sato,K.Kohata and F.Tatsuoka: "Deformation characteristics of undisturbed silty-sand from triaxial compression and in-situ tests and full-scale behavior", Prefailure deformation of geomaterials,A.A.Balkema,1,pp.241-246,September 1994.

A.Flora,G.L.Jiang,Y.Kohata and F.Tatsuoka: "Small strain behaviour of a gravel along some triaxial stress paths", Pre-failure deformation of geomaterials,A.A.Balkema,1,pp.279-285, September 1994.

M.S.A.Siddiquee,F.Tatsuoka,E.Hoque,T.Tsubouchi,O.Yoshida,S.Yamamoto and T.Tanaka: "FEM simulation of footing settlement for stiff geomaterials", Pre-failure deformation of geomaterials,A.A.Balkema,1,pp.531-537,September 1994.

T.Tsubouchi, K.Ochi and F.Tatsuoka: "Non-linear FEM analyses of pressuremeter tests in a sedimentary soft rock", Pre-failure deformation of geomaterials, A.A.Balkema, 1, pp. 539-544, September 1994.

K.Ochi,T.Tsubouchi and F.Tatsuoka: "Deformation characteristics of sedimentary soft rock evaluated by full-scale excavation", Pre-failure deformation of geomaterials, A.A.Balkema, 1, pp.601-607, September 1994.

F.Tatsuoka and Y.Kohata: "Stiffness of hard soils and soft rocks in engineering applications", Pre-failure deformation of geomaterials, A.A.Balkema, 2, September 1994.

E.Hoque, M.S.A.Siddiquee, Y.Kohata and F.Tatsuoka: "Young's modulus for elastic strains during triaxial compression of sands", Proc. of 49th Annual Conf. of JSCE, 3-A,pp.308-309, September 1994.

J.N.Mukabi and F.Tatsuoka: "Small strain behaviour in triaxial compression of lightly over-consolidation Kaolin", Proc. of 49th Annual Conf. of JSCE,3-A,pp.386-387,September 1994.

M.S.A.Siddiquee, T. tanaka and F. Tatsuoka: "A FEM simulation of strain localization in sand", Proc. of 49th Annual Conf. of JSCE, 3-A, pp. 336-337, September 1994.

T.Yoshida,F.Tatsuoka,M.S.A.Siddiquee and Y.Kamegai: "Shear banding in sands observed in plane strain compression", Localisation and Bifurcation Theory for Soils and Rocks, A.A.Balkema, pp.165-179,October 1994.

- F.Tatsuoka and Y.-S.Kim: "Deformation of shear zone in sedimentary soft rock observed in triaxial compression", Localisation and Bifurcation Theory for Soils and Rocks, A.A.Balkema, pp.181-187, October 1994.
- F.Tatsuoka: "Discussion on measurement of static deformation moduli in dynamic tests", Deformation of soils and displacements of structures, Proc. of the 10th European Conf. on S.M.F.E., Vol.4, pp. 1219-1226, 1994.
- F.Tatsuoka, D.C.F.Lo Presti and Y.Kohata: "Deformation characteristics of soils and soft rocks under monotonic and cyclic loads and their relationships", Third Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, 1995 (in press).
- Y.Kohata,L.Wang,F.Tatsuoka,K.Ochi and T.Tsubouchi: "Inherent and induced anisotropy of sedimentary softrock", Proc. of the 10th Asian Regional Conf. on S.M.F.E.,1995 (in press).
- F. Yamazaki, G. Molas and M. Fatima: "Use of Neural Networks for Earthquake Damage Estimation" Structural Safety & Reliability, pp.2263-2270, Schuèsller, Shinozuka & Yao (eds), 1994.
- G. Molas and F. Yamazaki: "An Earthquake Damage Model Using Neural Networks" Bulletin of Earthquake Resistant Structure Research Center, No.27, pp.89-101, Institute of Industrial Science, University of Tokyo, March 1994.
- G. Molas and F. Yamazaki: "Seismic Macrozonation of the Philippines Based on Seismic Hazard Analysis" Journal of Structural Mechanics and Earthquake Engineering, Vol.489/I-27, pp.59-69, April 1994.
- F. Yamazaki and T. Turker: "Spatial Variation of Seismic Ground Motion Modeled by FK Spectrum" Journal of Structural Mechanics and Earthquake Engineering, Vol.489/I-27, pp.83-86, April 1994.
- T. Katayama: "International Decade for Natural Disaster Reduction-Working Against Time" UN UNIVERSITY LECTURE 8, (Presentation: 13 October 1993), June 1994.
- T. Katayama: "WSSI and Worldwide Cooperation in Seismic Disaster Mitigation" Proc. of Kerensky Conference, July 1994.
- F. Yamazaki, T. Katayama and Y. Yoshikawa: "On-Line Damage Assessment of City Gas Networks Based on Dense Earthquake Monitoring" Proc. of 5th U.S. National Conference on Earthquake Engineering, Vol.4, pp.829-837, July 1994.
- G. Molas and F. Yamazaki: "Quick Earthquake Damage Estimation by Neural Networks" Proc. of 5th U.S. National Conference on Earthquake Engineering, Vol.2, pp.25-34, July 1994.

- T. Ganev, F. Yamazaki and T. Katayama: "Soil-Structure Interaction of a Reinforced Concrete Tower Based on Earthquake and Microtremor Observations" Proc. of 5th U.S. National Conference on Earthquake Engineering, Vol.4, pp.35-44, July 1994.
- T. Winkler, K. Meguro and F. Yamazaki: "Overturning of Rigid Bodies under Dynamic Excitation" Proc. of 5th U.S. National Conference on Earthquake Engineering, Vol.2, pp.859-868, July 1994.
- S. Herath and T. Katayama: "Towards Natural Disaster Reduction -Proceedings of VII PSA Workshop-" INCEDE Report No.4, Institute of Industrial Science, University of Tokyo, July 1994.
- K. Meguro and T. Katayama: "Geo-Related Disasters and Their Countermeasures in Japan" Proc. of International Conference on Landslides, Slope Stability and The Safety of Infrastructures, pp. 249-256, September 1994.
- K. Meguro and T. Katayama: "WSSI Bangkok Workshop on Seismic Management" INCEDE Report No. 5, 1994-02, 192 pages, Institute of Industrial Science, University of Tokyo, September 1994.
- T. Katayama, M.A.H. Pramanik, A.S. Herath and K. Meguro: "INCEDE Newsletter, Vol. 3, Nos. 1 and 2, Institute of Industrial Science, University of Tokyo, April 1994 September 1994.
- M. A. Ansary, F. Yamazaki and T. Katayama: "Conversion Factors for Different Definitions of Peak Values of Ground Motion Indices" Proc. of the 49th Annual Conference of JSCE, I, pp.1328-1329, JSCE, September 1994.
- G. L. Molas and F. Yamazaki: "Attenuation of Ground Motion of Earthquakes with Large Focal Depths" Proc. of the 49th Annual Conference of JSCE, I, pp.1330-1331, JSCE, September 1994.
- T. Winkler, K. Meguro and F. Yamazaki: "Response of Rigid Body Assemblies to Dynamic Excitation" Proc. of the 49th Annual Conference of JSCE, I, pp.902-903, JSCE, September 1994.
- T. Ganev, F. Yamazaki and T. Katayama: "A Study of Soil-Structure Interaction of a Model Reinforced Concrete Tower" Proc. of the 49th Annual Conference of JSCE, I, pp.918-919, JSCE, September 1994.
- K. Meguro and T. Katayama: "Hokkaido-Toho-Earthquake, The Third Earthquake in Northern Island in Two Years, October, 1994" INCEDE Newsletter, Special Issue, 8 pages, Institute of Industrial Science, University of Tokyo, October 1994.
- T. Ganev, F. Yamazaki and T. Katayama: "Analysis of Soil-Structure Interaction of a Reinforced Concrete Tower" Proc. of the 9th Japan Earthquake Engineering Symposium, Vol.3, pp.319-324, December 1994.

- T. Winkler, K. Meguro and F. Yamazaki: "Response of Rigid Body Assemblies to Dynamic Excitation" Proc. of the 9th Japan Earthquake Engineering Symposium, Vol.3, pp.139-144, December 1994.
- G. L. Molas and F. Yamazaki: "Effect of Focal Depth to the Attenuation Characteristics of Earthquake Ground Motion" Proc. of the 9th Japan Earthquake Engineering Symposium, Vol.3, pp.31-36, December 1994.
- M. A. Ansary, F. Yamazaki and T. Katayama: "Peak Values of Ground Motion Indices Based on Two Horizontal Components" Proc. of the 9th Japan Earthquake Engineering Symposium, Vol.3, pp.37-42, December 1994.
- K. Meguro, T. Katayama and A.S. Herath: "The First 55 Hours, Great Hanshin Earthquake, January 17, 1995" INCEDE Newsletter, Special Issue, 20 pages, Institute of Industrial Science, University of Tokyo, January 1995.
- T. Ganev, F. Yamazaki and T. Katayama: "Observation and Numerical Analysis of Soil-Structure Interaction of a Reinforced Concrete Tower" Earthquake Engineering and Structural Dynamics, Vol.24, pp.491-503, John Wiley & Sons, Ltd., March 1995.
- G. L. Molas and F. Yamazaki: "Neural Networks for Quick Earthquake Damage Estimation" Earthquake Engineering and Structural Dynamics, Vol.24, pp.505-516, John Wiley & Sons, Ltd., March 1995.