LIST OF PAPERS BY MEMBERS OF EARTHOUAKE RESISTANT STRUCTURE RESEARCH CENTER

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

University of Tokyo

JSCE : The Japan Society of Civil Engineers

JSCE : The Japan Society of Mechanical Engineers

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

- * C. Noda, T. Ishikawa, F. Kumazawa and T. Okada: "A Study on Evaluation of Sensation for Horizontal Vibration," Proceedings of the Annual Transactions of AIJ, Kanto Branch, Structural and Construction Engineering, pp.13-16, January 1992.
- F. Kumazawa and T. Okada: "Shaking Table Tests of Reinforced Concrete 1/15 Scaled Model Structures," Taller Nacional, Presente y Futuro de la Investigacion Experimental en Estructuras en Mexico, Japon y Estados Unidos, pp.48-60, Centro Nacional de Prevencion de Desastres, February 1992.
- Y. Nakano, F. Kumazawa, H. Katsumata, M. Seki and T. Okada: "Experimental Study of Reinforced Concrete Frames Retrofitted with Ductile Steel Framed Y-Shaped Bracing System," Bulletin of Earthquake Resistant Structure Research Center, No.25, pp.9-24, Institute of Industrial Science, University of Tokyo, March 1992.
- F. Kumazawa and T. Okada: "Shaking Table Tests of Reinforced Concrete Small Scaled Model Structure (Part 2)," Bulletin of Earthquake Resistant Structure Research Center, No.25, pp.25-37, Institute of Industrial Science, University of Tokyo, March 1992.
- T. Okada, Y. Nakano, F. Kumazawa, H. Katsumata and M. Seki: "Experimental Study of 1/10 Scaled R/C Frame Retrofitted with Steel Framed Y-Shaped Bracing System," Proceedings of

- the International Symposium on Earthquake Disaster Prevention at Mexico City, CENAPRED, May 1992.
- * S. Otani, D. Kato and Y. Nakano: "Damage Report of the Erzincan Earthquake, Turkey," Journal of Building Disaster Prevention, No.174, pp.21-39, Japan Disaster Prevention Association, June 1992.
- F. Kumazawa and T. Okada: "Shaking Table Tests of Reinforced Concrete Small Scaled Model Structures," Proceedings of The Tenth World Conference Earthquake Engineering, Vol.V, pp.2771-2774, A.A.Balkema, July 1992.
- Y. Nakano, F. Kumazawa and T. Okada: "Bidirectional Behavior of RC Weak Model Structure," Proceedings of The Tenth World Conference on Earthquake Engineering, Vol.VIII, pp.4217-4220, A.A.Balkema, July 1992.
- * T. Ishikawa, C. Noda, F. Kumazawa and T. Okada: "A Study of Sensation and Its Expression for Vertical Vibration," Journal of Architecture, Planning and Environmental Engineering, AIJ, No.437, pp.1-10, July 1992.
- * F. Kumazawa and T. Okada: "Shaking Table Test of Reinforced Concrete One-Fifteenth Scale Model Structures -Part 3 Response Characteristics-," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.C, pp.175-176, August 1992.
- * Y. Nakano, M. Seki, H. Katsumata, F. Kumazawa and T. Okada: "Seismic Tests of 1/10 Scaled R/C Frames Retrofitted with Y-Shaped Steel Bracing -Part 4 Ultimate Strength and Deformation Capacity of Retrofitted Frame-," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.C, pp.177-178, August 1992.
- * R. Numata, T. Ishikawa, T. Noda, F. Kumazawa and T. Okada: "A Study on Expression of Sense for Horizontal Vibration -Part 1 Factor Analysis and Component Analysis for Result of Semantic Differential Method-," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.D, pp.19-20, August 1992.
- * T. Ishikawa, S. Tokoro, T. Noda, F. Kumazawa and T. Okada: "A Study on Expression of Sense for Horizontal Vibration -Part 2 Cluster Analysis for Result of Semantic Differential Method-," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.D, pp.21-22, August 1992.

- * K. Hamanaka, T. Ishikawa, T. Noda, F. Kumazawa and T. Okada: "A Study on Expression of Sense for Horizontal Vibration -Part 3 Discriminant Analysis for Result of Semantic Differential Method-," Summaries of Technical Papers of Annual Meeting, AIJ, Vol.D, pp.23-24, August 1992.
- * K. Kabayama, M. Toyoshima, F. Kumazawa, Y. Nakano and T. Okada: "On-Line Test on Reinforced Concrete Frame," SEISAN-KENKYU, Vol.44, No.10, pp.59-62, Institute of Industrial Science, University of Tokyo, October, 1992.
- * H. Li, F. Kumazawa, Y. Nakano and T. Okada: "Seismic Test on Reinforced Concrete Block Beam with Opening, "SEISAN-KENKYU, Vol.44, No.12, pp.49-52, Institute of Industrial Science, University of Tokyo, December, 1992.
- * T. Ishikawa, C. Noda, F. Kumazawa and T. Okada, : "A Study on Sensation Considering Visual Factor for Horizontal Vibration," The Twelfth Symposium on Wind Engineering, pp.73-78, Architectural Institute of Japan, December 1992.
- * T. Okada: "Seismic Evaluation, the Development in the Future," Journal of Building Disaster Prevention, No.181, pp.15-19, Japan Disaster Prevention Association, January 1993.
- J. Zheng, C. Tamura and K. Konagai: "Earthquake Response Analysis of Ground Surface by Wave Front Tracing Method," Jour. of Physics of Earth, Vol.40, No.1, pp.285-295, Jan., 1992.
- M. Fatima, F. Yamazaki and K. Konagai: "Site Investigation after Hindukushi Earthquake on February 1, 1991 and its Evaluation to Earthquake Resistant Structures," Bull. ERS, No.25, pp.39-60, March, 1992.
- P. Rangelow, K. Konagai, T. Matsushima and C.S. Park: "Visualization of Granular Material Deformation Through Laser-Aided Tomography," Bull. ERS, No.25, pp.61-67, March, 1992.
- K. Konagai and M. Maehara: "Study on Hypotheses for Simple Numerical Evaluation of Soil-Embedded Structure Interaction," Bull. ERS, No.25, pp.69-76, March, 1992.
- K. Konagai: "Estimation of Seismic Intensity Distribution Through Damages by the July 16, 1990 Luzon Earthquake," Proc., International Conf. on July 16, 1990 Luzon Earthquake, Quezon city, Manila, March, 1992.

- * K. Konagai and C. Tamura: "Visualization of Failure Process of Granular Structure Models by Laser-Aided Tomography," Jour. of Japan Soc. of Dam Engineering, No.5, pp.5-12, March, 1992.
- * K. Konagai and M. Maehara: "Wave Dissipation from a structure Embedded in an Elastic Stratum," SEISAN-KENKYU, Vol.44, No.4, pp.40-43, April, 1992.
- * T. Matsushima and K. Konagai: "Analysis of Dynamic Failure of Coarse Particle Assemblage by Discrete Elliptic Element Method," SEISAN-KENKYU, Vol.44, No.4, pp.44-47, April, 1992.
- * C. Tamura, X. Kong, K. Konagai and X. Luo: "Fundamental Research on Failure of Concrete-Faced Rockfill Dam (I) Experiments on the Failure of Rockfill Dam Models with Facing and without Facing-," SEISAN-KENKYU, Vol.44, No.5, pp.27-31, May, 1992.
- * C. Tamura, X. Kong, K. Konagai and X. Luo: "Fundamental Research on Failure of Concrete-Faced Rockfill Dam (II) The Effect of Section Shape on Failure of Concrete-Faced Rockfill Dam-," SEISAN-KENKYU, Vol.44, No.6, pp.1-6, May, 1992.
- * C. Tamura, X. Kong, K. Konagai and X. Luo: "Fundamental Research on Failure of Concrete-Faced Rockfill Dam (III) The Effect of Vertical Vibration on Failure of Concrete-Faced Rockfill Dam-," SEISAN-KENKYU, Vol.44, No.6, pp.7-12, May, 1992.
- K. Konagai and C. Tamura: "Visualization and Analysis of Dynamic Behavior of Underwater Granular Structure Models," Proc., 10th WCEE, Vol.5, pp.2731-2736, July, 1992.
- J.D. Ortiz, C. Tamura and K. Konagai: "Three-Dimensional Stress and Strain Detection by Photoelastisity using Laser-Light-Sheet," Proc., 10th WCEE, Vol.5, pp.2731-2736, July, 1992.
- * X. Kong, F. Tatsuoka, T. Sato, Y. Kohata and K. Konagai: "Effect of Cyclic Prestraining on Deformation Characteristics of a Crushed Sandstone I Testing Method and Strength -," SEISAN-KENKYU, Vol.44, No.6, pp.16-20, June, 1992.
- * X. Kong, F. Tatsuoka, T. Sato, Y. Kohata and K. Konagai: "Effect of Cyclic Prestraining on Deformation Characteristics of a Crushed Sandstone II Monotonic Loading Test -," SEISAN-KENKYU, Vol.44, No.6, pp.21-26, June, 1992.

- * X. Kong, F. Tatsuoka, T. Sato, Y. Kohata and K. Konagai: "Effect of Cyclic Prestraining on Deformation Characteristics of a Crushed Sandstone III Cyclic Loading Test -," SEISAN-KENKYU, Vol.44, No.8, pp.8-11, Aug., 1992.
- * X. Kong, F. Tatsuoka, T. Sato, Y. Kohata and K. Konagai: "Effect of Cyclic Prestraining on Deformation Characteristics of a Crushed Sandstone III Poisson's Ratio -," SEISAN-KENKYU, Vol.44, No.8, pp.12-14, Aug., 1992.
- K. Konagai, C. Tamura, P. Rangelow and T. Matsushima: "Laser-Aided Tomography: A Tool for Visualization of Changes in the Fabric of Granular Assemblage," Structural Eng./Earthquake Eng., JSCE, Vol.9, No.3, pp.193s-201s, Oct., 1992, (Proc. of JSCE No.455/I-21).
- * K. Konagai: "Visualization of Changes in Configuration of Coarse Particle Assemblages making up Civil Engineering Structures," Jour. of Visualization Soc. of Japan, Vol.12, No.47, pp.14-20, Oct., 1992.
- * J. Sayama, A. Mikami and K. Konagai: "Spatial Variation of Wave Propagation Embedded in an Elastic Stratum," SEISAN-KENKYU, Vol.44, No.12, pp.53-56, Dec., 1992.
- P. Rangelow, K. Konagai: "Visualization of Shearing of Coarse Sandy Material through Laser-Aided Tomography," 47th Annual Convention of JSCE, I, pp.1390-1391, Sept. 1992.
- * C. Tamura, X. Kong and K. Konagai: "Experimental Study on Failure Process of Concrete-Faced Rockfill Dam," 47th Annual Convention of JSCE, I, pp.1390-1391, Sept., 1992.
- * J. Zheng, K. Konagai and C. Tamura: "Numerical Simulation of Soft Soil Deposit within a Valley," 47th Annual Convention of JSCE, I, pp.826-827, Sept., 1992.
- * T. Matsushima and K. Konagai: "Numerical Simulation of Dynamic Failure Process of Particle Assemblage using Discrete-Elliptic-Element Method," 47th Annual Convention of JSCE, I, pp.1306-1307, Sept., 1992.
- * X. Luo, X. Kong, K. Konagai and C. Tamura: "Experiments on Shearing on the Interface between Mortar Plate and Aggregate Assemblage," 47th Annual Convention of JSCE, I, pp.1390-1391, Sept., 1992.

- * M. Maehara, K. Konagai and C. Tamura: "Simplified Approach for Evaluation of Soil-Embedded Structure Interaction," 47th Annual Convention of JSCE, I, pp.1368-1369, Sept., 1992.
- * K. Konagai, P. Rangelow, T. Namikawa and C. Tamura: "Visualization and Analysis of Changes in the Fabric of Particle Assemblages," Japan NCTAM, 1993. Preprint, pp.241-244, Jan., 1993.
- * S. Fujita, T, Fujita, O. Furuya, S. Morikawa, Y. Suizu, T. Teramoto and H. Kitamura: "Vibration Control of High-Rise Building Using High Damping Rubber Damper," Proc. of Annual Meeting of JSME, No.920-17, pp.121-123, April 1992.
- * Y. Tagawa and T. Fujita: "Design Method for Multiinput Multioutput Microvibration Control System," Trans. of JSME, Vol.58, No.550, pp.1819-1826, June 1992.
- * T. Fujita: "Response Control and Seismic Isolation Using Active Control,", The Journal of the INCE of Japan, Vol.16, No.3, pp.113-118, June 1992.
- * T. Fujita, M. Shimazaki, Y. Hayamizu, S. Aizawa, M. Higashino, T. Kubo and N. Haniuda: "Semiactive Seismic Isolation System Using Controllable Friction Damper (2nd Report, Study of the System with Distributed Controllable Friction Dampers)," Trans. of JSME, Vol.58, No.551, pp.2012-2016, July 1992.
- * T. Fujita, T. Kamada and N. Masaki: "Fundamental Study of Active Mass Damper Using Multistage Rubber Bearing and Hydraulic Actuator for Vibration Control of Tall Buildings (Excitation Tests for Experimental Model of Building with the Mass Damper)," Dynamics and Design Conf. JSME, No.920-55, pp.304-309, July 1992.
- * T. Fujita, M. Mizuta, K. Matsumoto, M. Kinoshita, S. Takanashi and H. Miyano: "Large-Scale Model Experiment of A Hybrid Mass Damper with Convertible Active and Passive Modes for Vibration Control of Tall Buildings." Dynamics and Design Conf. JSME, No.920-55, pp.310-315, July 1992.
- * Y. Tagawa and T. Fujita: "Design Method for Multiinput Multioutput Microvibration Control System," Dynamics and Design Conf. JSME, No.920-55, pp.376-381, July 1992.
- * T. Fujita, Y. Tagawa, K. Kajiwara, H. Yoshioka, A. Takeshita and M. Yasuda: "Active Microvibration Control System Using Piezoelectric Actuator (Development of Active 6DOF

- Microvibration Control System)," Dynamics and Design Conf. JSME, No.920-55, pp.409-414, July 1992.
- T. Fujita, S. Takanashi, K. Matsumoto and H. Miyano: "Mass Damper with Convertible Active and Passive Modes for Response Control of Buildings," Proc. of 10th WCEE, Vol.4, pp.2079-2083, July 1992.
- T. Fujita, T. Kamada, N. Masaki and Y. Suizu: "Active Mass Damper Using Multistage Rubber Bearing and Hydraulic Actuator," Proc. of 10th WCEE, Vol.4, pp.2073-2077, July 1992.
- H. Kitamura, T. Fujita, T. Teramoto and T. Yamane: "Design and Analysis of Tall Building with an Active Mass Damper." Proc. of 10th WCEE, Vol.4, pp.2061-2067, July 1992.
- S. Fujita, T. Fujita, O. Furuya, S. Morikawa, Y. Suizu, T. Teramoto and H. Kitamura: "Development of High Damping Rubber Damper for Vibration Attenuation of High-Rise Buildings," Proc. of 10th WCEE, Vol.4, pp.2097-2101, July 1992.
- * M. Kinoshita, T. Fujita, D. Nemoto, N. Izumi and H. Miyano: "Study of mass damper with convertible active and passive modes (Part 2, Scheme of APMD and large scale model structure)," Summaries of Technical Papers of Annual Meeting of AIJ, pp.899-900, August 1992.
- * S. Takanashi, T. Fujita, D. Nemoto and H. Miyano: "Study of mass damper with convertible active and passive modes (Part 3, Control system)," Summaries of Technical Papers of Annual Meeting of AIJ, pp.901-902, August 1992.
- * K. Matsumoto, T. Fujita, D. Nemoto, M. Hayama, T. Tateno and H. Ebisawa: "Study of mass damper with convertible active and passive modes (Part 4, Forced vibration test of large scale model structure)," Summaries of Technical Papers of Annual Meeting of AIJ, pp.903-904, August 1992.
- * M. Watakabe, T. Fujita, D. Nemoto and S. Takanashi: "Study of mass damper with convertible active and passive modes (Part 5, Vibration control effect for wind loading)," Summaries of Technical Papers of Annual Meeting of AIJ, pp.905-906, August 1992.
- * H. Kitamura, T. Fujita, T. Teramoto, H. Yamane and K. Harada: "DESIGN AND ANALYSIS OF A TALL BUILDING WITH AN ACTIVE MASS DAMPER (DESIGN CRITERIA AND

- VERIFICATION OF THE RESPONSE CONTROL EFFECT)," Summaries of Technical Papers of Annual Meeting of AIJ, pp.965-966, August 1992.
- * H. Kitamura, T. Fujita, T. Teramoto, H. Yamane and K. Harada: "DESIGN AND ANALYSIS OF A TALL BUILDING WITH AN ACTIVE MASS DAMPER (VERIFICATION OF THE EFFECTS BY CONSIDERING THE ENERGY BALANCE)," Summaries of Technical Papers of Annual Meeting of AIJ, pp.967-968, August 1992.
- * M. Shimazaki and T. Fujita: "Braking Control of Semiactive Seismic Isolation System Using Controllable Friction Damper," SEISAN-KENKYU, Vol.44, No.10, pp.509-512, October 1992.
- T. Fujita, Y. Tagawa, K. Kajiwara, H. Yoshioka, A. Takeshita and M. Yasuda: "Active 6-DOF Microvibration Control System Using Piezoelectric Actuator," 3rd Int. Conf. on Adaptive Structures, November 1992.
- T. Fujita, K. Matsumoto, M. Kinoshita, S. Takanashi and H. Miyano: "Response Control of Building by Hybrid Mass Damper with Convertible Active and Passive Modes," 3rd Int. Conf. on Adaptive Structures, November 1992.
- * T. Fujita, M. Mizuta, K. Matsumoto, M. Kinoshita, S. Takanashi and H. Miyano: "Large-Scale Model Experiment of A Hybrid Mass Damper with Convertible Active and Passive Modes for Vibration Control of Tall Buildings." Trans. of JSME, Vol.59, No.557, pp.36-43, January 1993.
- * T. Fujita: "Seismic Isolation Systems and Time," Journ. of JSME, Vol.96, No.890, pp.77-78, January 1993.
- * T. Fujita, T. Kamada, N. Masaki: "Fundamental Study of Active Mass Damper Using Multistage Rubber Bearing and Hydraulic Actuator for Vibration Control of Tall Buildings (2nd Report, Excitation Tests for Experimental Model of Building with the Mass Damper)," Trans. of JSME, Vol.59, No.558, February 1993.
- * T. Fujita, Y. Tagawa, K. Kajiwara, H. Yoshioka, A. Takeshita, M. Yasuda: "Active Microvibration Control System Using Piezoelectric Actuator (2nd Report, Development of Active 6DOF Microvibration Control System)," Trans. of JSME, Vol.59, No.559, March 1993.
- Y. Hangai and Y. Kanai: "Shape Analysis of Structures under Prescribed Displacement Modes," Proceedings of IUTAM Symposium in Engineering Mechanics, edited by IUTAM and JASCOME,

pp.109-111, 1992.

- T. Tanami and Y. Hangai: "Shape Analysis of Adaptable Structures under Dynamic and Static Loads," Proceedings of IASS-CSCE Innovative Large Span Structures, edited by N.K. Srivastava, A.N. Sherbourne and J. Roorda, Vol.1, pp.475-484, July 1992.
- Y. Hangai, K. Kondoh, K. Oda and S. Ohya: "Load Carrying Test of a Wood Lattice Dome for EXPO'90 Osaka," Proceedings of IASS-CSCE Innovative Large Span Structures, edited by N.K. Srivastava, A.N. Sherbourne and J. Roorda, Vol.1, pp.648-656, July 1992.
- T. Suzuki and Y. Hangai: "Shape Analysis of Differently Stressed Surface by the Finite Element Method," Proceedings of IASS-CSCE Innovative Large Span Structures, edited by N.K. Srivastava, A.N. Sherbourne and J. Roorda, Vol.2, pp.400-411, July 1992.
- X. Lin and Y. Hangai: "Geometrical Nonlinear Vibration of Shallow Membrane Structures under Wind Load," Proceedings of IASS-CSCE Innovative Large Span Structures, edited by N.K. Srivastava, A.N. Sherbourne and J. Roorda, Vol.2, pp.431-437, July 1992.
- K. Oda and Y. Hangai: "Snap-Through Buckling and Torsional Buckling of Joint of Single-Layer Lattice Shell," Proceedings of IASS-CSCE Innovative Large Span Structures, edited by N.K. Srivastava, A.N. Sherbourne and J. Roorda, Vol.2, pp.487-496, July 1992.
- M. Takayama and Y. Hangai: "Experiments of the Effect of Initial Imperfection on buckling Behaviours of Reinforced Concrete Cylindrical Shells," Proceedings of IASS-CSCE Innovative Large Span Structures, edited by N.K. Srivastava, A.N. Sherbourne and J. Roorda, Vol.2, pp.698-708.
- Y. Hangai, K. Kawaguchi and K. Oda: "Self-Equilibated Stress System and Structural Behaviour of Truss Structures Stabilized by Cable Tension," International Journal of Space Structures, Vol.7, No.2, pp.91-99, 1992.
- S. Shibuya, F. Tatsuoka, S. Teachavorasinskun, X.J. Kong, F. Abe, Y.S. Kim and C.S. Park: "Elastic Deformation Properties of Geomaterials.", Soils and Foundations, Vol.32, No.3, pp.26-46, September 1992.
- H.I. Ling, J.T.H. Wu and F. Tatsuoka: "Short-Term Strength and Deformation Characteristics of Geotextiles Under Typical Operational Conditions.", Geotextiles and Geomenbranes, Vol.11,

- No.2, pp.185-219, November 1992.
- S.K. Ampadu and F. Tatsuoka: "A Hollow Cylinder Torsional Simple Shear Ap-paratus Capable of a Wide Range of Shear Strain Measurement.", Geotechnical Testing Journal, Vol.16, No.1 pp.3-17, March 1993.
- H.I. Ling, F. Tatsuoka and J.T.H. Wu: "Discussion on 'Effects of Back Pre-ssure on Geotextile Transmissivity Tests' by An-Ben Huang, R. D. Holtz and A. M. Wilcox.", Geotechnical Testing Journal, Vol.15, No.3, pp.305-307, September 1992.
- S.K. Ampadu and F. Tatsuoka: "Discussion on 'Measurement of Soil Strength in Simple Shear Tests' by J.H. Atkinson, W.H.W. Lau and J.J.M. Powell.", Canadian Geotechnical Journal, Vol.29, No.5, pp.874-877, October 1992.
- F. Tatsuoka and S. Shibuya: "Deformation Characteristics of Soils and Rocks from Field and Laboratory Tests.", Proc. of the 9th Asian Regional Conf. on S.M.F.E., Vol.2, pp.101-170, December 1991.
- F. Tatsuoka, M.S.A. Siddiquee, T. Tanaka and M. Okahara: "A New Aspect of a Very Old Issue: Bearing Capacity of Footing on Sand.", Proc. of the 9th Asian Regional Conf. on S.M.F.E., Vol.2, pp.358, December 1991.
- F. Tatsuoka, O. Murata and M. Tateyama: "Geosynthetic Reinforced Soil Re-taining Walls Used for Permanent Railway Structure in Japan.", Proc. of the 9th Asian Regional Conf. on S.M.F.E., Vol.2, pp.358, December 1991.
- F. Tatsuoka, O. Murata and M. Tateyama: "Permanent Geosynthetic-Reinforced Soil Retaining Walls Used for Railway Embankments.", Geosynthetic-Reinforced Soil Retaining Walls, pp.101-130, Balkema, 1992.
- H.I. Ling and F. Tatsuoka: "Nonlinear Analysis of Reinforced soil Structu-res by Modified CANDE (M-CANDE).", Geosynthetic-Reinforced Soil Retaining Walls, pp.279-296, Balkema, 1992.
- H.I. Ling and F. Tatsuoka: "Post-Symposium Discussions: Applicability of M-CANDE for Analyzing the Behavior of Geosynthetic-Reinforced Soil Structur-es.", Geosynthetic-Reinforced Soil Retaining Walls, pp.297-303, Balkema, 1992.

- M. Tateyama, Y. Tamura, H. Tarumi and F. Tatsuoka: "Permanent Cut of an Embankment Slope by Soil Nailing Allowing Very Small Deformation.", Earth Reinforcement Practice, Vol.1, pp.555-560, Balkema, November 1992.
- C.C. Huang and F. Tatsuoka: "A Comparative Study of Stability Analysis Me-thods for Reinforced Sand Slopes.", Earth Reinforcement Practice, Vol.1, pp.607-612, Balkema, November 1992.
- F. Tatsuoka: "Roles of Facing Rigidity in Soil Reinforcing.", Earth Rein-forcement Practice, Preprints, pp.77-115, November 1992.
- F. Yamazaki, L. Lu, T. Katayama: "Orientation Error Estimation of Buried Seismographs in Array Observation," Earthquake Engineering and Structural Dynamics, 21, pp. 679-694, John Wiley and Sons, Ltd., 1992.
- T. Katayama, M.A.H. Pramanik, A.S. Herath, K. Meguro: "INCEDE in Motion," Bulletin of Earthquake Resistant Structure Research Center, 25, pp. 3-7, Institute of Industrial Science, University of Tokyo, 1992.
- M. Fatima, F. Yamazaki, K. Konagai: "Site Investigation After Hindukush Earthquake on February 1, 1991 and its Evaluation to Earthquake Resistant Structures," Bulletin of Earthquake Resistant Structure Research Center, 25, pp. 39-60, Institute of Industrial Science, University of Tokyo, 1992.
- H. Yokoyama, S. Nagata, F. Yamazaki, T. Katayama: "Human Behavior During Emergency Evacuation," Bulletin of Earthquake Resistant Structure Research Center, 25, pp. 105-116, Institute of Industrial Science, University of Tokyo, 1992.
- F. Yamazaki, T. Turker: "Spatial Variation Study on Earthquake Ground Motion Observed by the Chiba Array," Proc. of the Tenth World Conference on Earthquake Engineering, 2, pp. 651-656, 1992.
- L. Cret, T. Katayama: "On-line Damage Estimation for Lifeline Systems During Earthquakes," Proc. of the Tenth World Conference on Earthquake Engineering, 9, pp. 5501-5504, 1992.
- C.A. Villacis, T. Katayama: "Analysis of Seismic Ground and Pipe Strains Observed in Chiba,

- Japan," Proc. of the Tenth World Conference on Earthquake Engineering, 9, pp. 5517-5522, 1992.
- G. Molas, F. Yamazaki, Y. Tomatsu: "Seismic Hazard Analysis in the Philippines Using Earthquake Occurrence Data," Proc. of the Tenth World Conference on Earthquake Engineering, 10, pp. 6031-6036, 1992.
- H. Yokoyama, S. Nagata: "A Maze Experiment on Human Behavior During Evacuation," Proc. of the Tenth World Conference on Earthquake Engineering, 10, pp. 6091-6096, 1992.
- M.R. Rimal, K. Meguro, H. Higashihara: "Study of Fracture Process of an Earthquake Fault," Proc. of the Tenth World Conference on Earthquake Engineering, 3, pp. 1227-1231, 1992.
- K. Meguro, M. Hakuno: "Simulation of Collapse of Structures Due to Earthquake Using the Extended Distinct Element Method," Proc. of the Tenth World Conference on Earthquake Engineering, 7, pp. 3793-3796, 1992.
- G. Molas, F. Yamazaki: "Seismic Macrozonation of the Philippines Based on the Expected Peak Ground Acceleration," Proc. of the 47th Annual Conference of the Japan Society of Civil Engineers, 1, pp. 78-79, 1992.
- M. Fatima, F. Yamazaki, T. Katayama: "Neural Networks for Estimation of Earthquake Damage Severity," Proc. of the 47th Annual Conference of the Japan Society of Civil Engineers, 1, pp. 142-143, 1992.
- C. Villacis, T. Katayama: "Ground Strains Due to Propagating Seismic Waves," Proc. of the 47th Annual Conference of the Japan Society of Civil Engineers, 1, pp. 146-147, 1992.
- M.R. Rimal, K. Meguro, M. Hakuno, H. Higashihara: "Earthquake Rupture Simulation by the Extended DEM," Proc. of the 47th Annual Conference of the Japan Society of Civil Engineers, 1, pp. 1436-1437, 1992.
- S. Nagata, T. Katayama: "Seismic Damage Assessment Methodology with Enhanced Use of Regional Characteristics," Proc. of the 4th Japan-U.S. Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures Against Soil Liquefaction, 1992.
- K. Meguro, S. Nagata, T. Tatekawa, T. Katayama: "Power Disruption due to Typhoon in

Hiroshima and Its Impacts on Other Lifeline Systems," Proc. of the 4th Japan-U.S. Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures Against Soil Liquefaction, 1992.

- T. Katayama: "Six Weeks After the Loma Prieta Earthquake An Interview with R.K. Eisner," Seismicity and Seismic Hazard: Report of the Committee for Study on Seismicity and Seismic Hazard, pp. 97-112, Fire and Marine Insurance Rating Association of Japan, 1992.
- M. Hakuno, K. Meguro: Earthquake Damage: The Mother of Earthquake Engineering Learning from the Observation of Earthquake Damage, Kajima Institute Publishing, 1992.
- T. Katayama, M.A.H. Pramanik, S. Herath, K. Meguro: "INCEDE Our Activities and Aspirations," SEISAN-KENKYU, 45, 3, 1993.
- K. Meguro, Y. Nakano: "Damage Report of the Erzincan Earthquake, Turkey, March 13," SEISAN-KENKYU, 45, 3, 1993.
- G. Molas, F. Yamazaki: "Seismic Hazard Analysis and Macrozonation of the Philippines," SEISAN-KENKYU, 45, 3, 1993.
- T. Ganev, S. Nagata, T. Katayama, Y. Hangai: "Creation of a Database of Earthquake Records from an Observation Tower and Preliminary Processing of the Data," SEISAN-KENKYU, 45, 3, 1993.
- * K. Koh and K. Takanashi: "Reliability Theory of Structures under Repeated Loading," Journal of Structural and Construction Engineering, AIJ, No.437, pp.11-20, July 1992.
- * L. Meng, K. Ohi and K. Takanashi: "A Simplified Model of Steel Structural Members with Strength Deterioration Used for Earthquake Response Analysis," Journal of Structural and Construction Engineering, AIJ, No.437, pp.115-124, July 1992.
- K. Ohi, Y.Homma and H. Kondo: "Energy input rate spectra earthquake ground motions," Proc. of the 10th World Conference on Earthquake Engineering, Vol.2, pp.641-644, July 1992.
- K. Takanashi, K. Ohi, L. Meng and Y. Chen: "Collapse Simulation of Steel Frames with Local Buckling," Proc. of the 10th World Conference on Earthquake Engineering, Vol.8, pp.4481-4484, July 1992.

- T. Okada and K. Takanashi: "The Resonance Responses of Steel Structure with Sliding Floor Loads," Proc. of the 10th World Conference on Earthquake Engineering, Vol.8, pp.4419-4422, July 1992.
- L. Meng, K. Takanashi, K. Ohi: "Collapse Modes of Steel Frames under Earthquake Excitations," Proc. of the 10th World Conference on Earthquake Engineering, Vol.8, pp.4429-4434, July 1992.
- Z. Carlos, K. Takanashi, K. Ohi, Y. Chen and H. Kondo: "Intelligent Loading Test on H-shaped Steel Beam-Columns under Varying Axial and Lateral Loads," Summaries of Technical Papers of Annual Meeting AIJ 1992, Vol.C, pp.1253-1254, August 1992.
- * K. Ohi, K. Takanashi, Y. Chen, H. Kondo and Y. Shimawaki: "Inelastic Behaviors of Steel Square-box Beam-columns Subject to Varying Axial and Bi-directional Lateral Loads (Part 1. Quasi-static Cyclic Loading Tests)," Summaries of Technical Papers of Annual Meeting AIJ 1992, Vol.C, pp.1255-1256, August 1992.
- * H. Kondo, K. Takanashi, K. Ohi, Y. Chen and K. Koh: "Inelastic Behaviors of Steel Square-box Beam-columns Subject to Varying Axial and Bi-directional Lateral Loads (Part 2. On-line Pseudo-dynamic Earthquake Response Tests)," Summaries of Technical Papers of Annual Meeting AIJ 1992, Vol.C, pp.1257-1258, August 1992.
- * L. Meng, T. Suzuki, K. Ohi and K. Takanashi:" Influence of hysteretic rules on collapse behaviour of steel frames during earthquakes," Summaries of Technical Papers of Annual Meeting AIJ 1992, Vol.C, pp.1391-1392, August 1992.
- * Y. Chen, K. Takanashi and K. Ohi: "The Influence of Varying Axial Loads on Tall Buildings," Summaries of Technical Papers of Annual Meeting AIJ 1992, Vol.C, pp.1449-1450, August 1992.
- * Z. Hong, K. Ohi, Y. Chen and H. Kondo: "A Study on Sensitivities of Response Prediction Errors to Model Parameters Using Database of Earthquake Response Tests on Steel Frame," Summaries of Technical Papers of Annual Meeting AIJ 1992, Vol.C, pp.1353-1354, August 1992.
- * H. Komatsu, Y. Shimawaki, A. Fukushima, T. Choukai, T. Yamada and K. Takanashi: "Study

- on the Application of Soft Weld Joint to HT80 Column-Beam Connection (Part 2. Restoring Force, Experiment)," Summaries of Technical Papers of Annual Meeting AIJ 1992, Vol.C, pp.1515-1516, August 1992.
- * T. Yamada, H. Wada, H. Komatsu, T. Tyoukai, A. Fukushima and K.Takanashi: "Study on the Application of Soft Weld Joint to HT80 Column-Beam Connection (Part 3. Analytical Method)," Summaries of Technical Papers of Annual Meeting AIJ 1992, Vol.C, pp.1517-1518, August 1992.
- K. Takanashi: "Limit State Design in An Earthquake Prone Country," Proc. of 3rd PACIFIC STRUCTURAL STEEL CONFERENCE, JSSC, pp.59-72, October 1992.
- J.S.Kim, M.M.Kang, K.Koh and K.Takanashi: "Evalution of the Effective Buckling Length for Columns in Unbraced Frames," Proc. of 3rd PACIFIC STRUCTURAL STEEL CONFERENCE, JSSC, pp.173-180, October 1992.
- K. Takanashi, Y. Shimawaki, A. Fukushima and H.Komatsu: Flexural Buckling Strength of Centrally Loaded Compressive High-Strength Steel Members, Proc. of 3rd PACIFIC STRUCTURAL STEEL CONFERENCE, JSSC, pp.307-312, October 1992.
- K. Ohi, K. Takanashi and Y. Chen: "Loading Tests on Steel Beam-Columns with Axial Load Change," Proc. of 3rd PACIFIC STRUCTURAL STEEL CONFERENCE, JSSC, pp.537-544, October 1992.
- L. Meng, K. Takanashi, K. Ohi: "Evalution of The Energy Absorbing Capacity of A Steel Frame," Proc. of 3rd PACIFIC STRUCTURAL STEEL CONFERENCE, JSSC, pp.799-804, October 1992.
- K. Takanashi, A.S. Elnashai, A.Y. Elghazouli and K. Ohi: "Behaviour of Steel Frames with Semi-Rigid Connections under Earthquake Loading," Proc. of 1st World Conference on Constructional Steel Design, December 1992.
- * K. Koh and K. Takanashi: "On Making A Decision of Load Factor in Probability- Based Limit States Design of Structures," Journal of Structural and Construction Engineering, AIJ, No.444, pp.**-**, February 1993.
- * H. Kondo, K. Ohi and K. Takanashi: "Response and Failure Observation of Weakly Designed

- Steel Structure Models (Part 4. The database for the earthquake response recorded during these ten years)," Proc. of the 63th Architectural reserch meeting, 1992, kanto chapter, AIJ, pp.***-***, March 1993.
- Z. Carlos, K. Ohi, Y. Chen: "Special Factors on Substructuring Hybrid Simulation Implementation," Proc. of the 63th Architectural reserch meeting, 1992, kanto chapter, AIJ, pp.***-***, March 1993.
- * Z. Hong, K. Ohi, Y. Chen and H. Kondo: "Prediction and Classification of Seismic Damages of Steel Frames Using of Earthquake Response Tests," Proc. of the 63th Architectural reserch meeting, 1992, kanto chapter, AIJ, pp.***-***, March 1993.
- * Y. Ogura, K. Harada, K. Ohi, K. Takanashi and Y. Chen: "*****," Proc. of the 63th Architectural reserch meeting, 1992, kanto chapter, AIJ, pp.***_***, March 1993.
- * K. Noguchi, K. Takanashi, K. Ohi, K. Koh and Y. Chen: "Numerical analysis of plane frame stability by using multi-spring model," Proc. of the 63th Architectural reserch meeting, 1992, kanto chapter, AIJ, pp.***_***, March 1993.
- * K. Ohi, H. Kondo, Y. Chen, K. Takanashi, Y. Shimawaki, A. Elnashai: "Earethquake Response Tests on Steel Frames with Semi-Rigid Connections," Journal of Structural Engineering, AIJ, Vol.39B, pp.***-***, March 1993.
- * Y. Chen: "Basic Response Behaviors of Lumped Mass Vibrational System Subject to Horizontal Bidirectional Earthquake Motions," Journal of Structural Engineering, AIJ, Vol.39B, pp.***-***, March 1993.