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Educational Background

Ph.D. in Civil Engineering, State University of New York at Buffalo (1996)
M.S. in Civil Engineering, State University of New York at Buffalo (1990)
B.S. in Architectural Engineering, Hanyang University (1982)

Professional Position and Activities

Architectural Institute of Korea
Korea Concrete Institute
Earthquake Engineering Society of Korea

Experiences

Ajou University (1998~present)
Post-Doctoral Researcher of NCEER and SUNY at Buffalo (1996~1997)
Structural Engineer, Daewoo Corporation (1982~1988)

Research Interest

Reinforced Concrete Structures
Seismic Design and Evaluation

Awards

Paper Award, Korea Concrete Institute (2000)

Publications

<International Journal Papers>

Jang Hoon Kim and John B. Mander, "Influence of Transverse Reinforcement on Elastic Shear Stiffness of Cracked Concrete", Journal of Engineering Structures, 29(8), Elsevier, pp. 1798-1807, August 2007.

Jang Hoon Kim and John B. Mander, Closure to "Theoretical Shear Strength of Concrete Columns Due to Transverse Steel", Journal of Structural Engineering,

ASCE, 132(7), pp. 1178-1179, July 2006.

Jang Hoon Kim, "Ductility enhancement of reinforced concrete thin walls", Computers & Concrete, An International Journal, 2(2), pp. 111-123, 2005. 04.

Jang Hoon Kim and John B. Mander, "Theoretical Shear Strength of Concrete Columns Due to Transverse Steel", Journal of Structural Engineering, ASCE, 131(1), pp. 197-199, January 2005.

Jang Hoon Kim and John B. Mander, "Seismic Detailing of Reinforced Concrete Beam-Column Connections", Structural Engineering and Mechanics, 10(6), pp. 589-601, 2000. 12.

<Domestic Journal Papers>

Jang Hoon Kim and Dong Hoon Jwa, "Determination of Structural Performance Point Utilizing The Seismic Isolation Rubber Bearing Design Method", Journal of The Earthquake Engineering Society of Korea, 7(3), pp. 23-30, 2003. 06. (in Korean)

Jang Hoon Kim and Ki Hyuk Kwon, "Analysis on In-Plane Behavior of Unreinforced Masonry Walls", Journal of The Earthquake Engineering Society of Korea, 6(3), pp. 1-10, 2002. 06. (in Korean)

Jang Hoon Kim, "Comparative Seismic Evaluation of Structures by Energy Absorption Efficiency", Journal of The Earthquake Engineering Society of Korea, 5(3), pp. 37-43, 2001. 06. (in Korean)

Jang Hoon Kim, "Shear Strength of Concrete Members without Transverse Steel", Journal of Korea Concrete Institute, 12(6), pp. 57-66, 2000. 12. (in Korean)

Jang Hoon Kim, "Theoretical Stiffness of Cracked Reinforced Concrete Elements", Journal of The Korea Concrete Institute, 11(5), pp. 79-88, 1999. 10. (in Korean)

Jang Hoon Kim, "Energy-Based Seismic Evaluation of Reinforced Concrete Structures I - Flexural Components", Journal of The Earthquake Engineering Society of Korea, 3(3), pp. 33-44, 1999, 09. (in Korean)

Jang Hoon Kim, "Evaluation of Effective Section Area of Shear Steel in Reinforced Concrete Circular Columns", Journal of The Korea Concrete Institute", 11(3), pp. 81-88, 1999. 06. (in Korean)

<Proceedings of International Conferences and Workshops>

Jang Hoon Kim and Dong Hoon Jwa, "Simplified Method to Determine Structural Performance Points", 13WCEE (13th World Conference on Earthquake

Engineering), IAEE/CAEE (International/Canadian Association of Earthquake Engineering), Vancouver, Canada, pp. 1-12, 2004. 08.

Jang Hoon Kim, "Ductility Enhancement of RC Wall System", 4th International Conference on CONSEC '04, Concrete under Severe Conditions, pp.1224-1231, 2004. 06.

Jang Hoon Kim, "Analytical Implications on In-Plane Behavior of Unreinforced Masonry Walls", Proceedings of the Third DIANA World Conference, Tokyo, Japan, pp. 249-255, 9-11 October 2002.

Jang Hoon Kim, Dong Hoon Jwa and Sang Hoon Ahn, "Seismic Design of RC Wall for Ductility Enhancement", The 4th Taiwan-Japan-Korea Joint Seminar on Earthquake Engineering for Building Structures, Seoul, Korea, pp. 105-112, 2002. 10.

Jang Hoon Kim and Jae Kwan Kim, "Experimental Implications on Seismic Resistance of Unreinforced Cement Brick Walls", Proceedings of 3rd Japan-Korea-Taiwan Joint Seminar on Earthquake Engineering for Building Structures, SEEBUS, Taipei, Taiwan, pp. 87-96, 2001. 11.

Jang Hoon Kim and John B. Mander, "Cyclic Inelastic Strut-Tie Modeling of Shear-Critical RC Members", Proceedings of 2nd Korea-Japan Joint Seminar on Earthquake Engineering for Building Structures, SEEBUS, Kyoto, Japan, pp. 51-60, 2000. 10.

Jang Hoon Kim and John B. Mander, "Cyclic Inelastic Strut-Tie Modeling of Shear-Critical RC Members", ACI Fourth International Conference, American Concrete Institute / Korea Concrete Institute, SP-193, Seoul, Korea, pp. 707-727, 2000. 09.

Jang Hoon Kim and John B. Mander, "Theoretical Investigation of Shear Resistance of Concrete Circular Columns due to Transverse Steel", Proceedings of 6th International Conference on Structural Failure, Durability and Retrofitting, Singapore Concrete Institute, Singapore, pp. 219-226, 2000. 09.

Jang Hoon Kim and John B. Mander, "Theoretical Crack Angle in Reinforced Concrete Elements Subjected to Strong Earthquakes", 12WCEE(12th World Conference on Earthquake Engineering), IAEE(International Association of Earthquake Engineering), Auckland, New Zealand, pp. 1-8. 2000. 02.

Jang Hoon Kim, "Seismic Detailing of Reinforced Concrete Beam-Column Connections", The 1st Japan-Korea Joint Seminar on Earthquake Engineering for Building Structures, pp. Seoul, Korea, 1-9, 1999. 10.

John B. Mander, **Jang Hoon Kim** and Anindya Dutta, "Shear-Flexure Interaction Seismic Analysis and Design", Seminar on Post-Peak Behavior of RC Structures Subjected to Seismic Loads, Japan Concrete Institute, Tokyo, Japan, pp.

173-187, 1999. 10.

Jang Hoon Kim, "Seismic Detailing of Reinforced Concrete Beam-Column Connections", US-Korea Workshop on New Frontier in Infra-Structural/Seismic Engineering, Techno-Press, pp. 83-92, Seoul, Korea, 1999. 08.

Jang Hoon Kim, "Strength and Deformation Analysis of Reinforced Concrete Columns under High Axial Loading", ASEM'99 (The First International Conference on Advances in Structural Engineering and Mechanics), International Association of Structural Engineers, Techno-Press, 2(-), Seoul, Korea, pp. 1563-1568, 1999. 08.

<Proceedings of Domestic Conferences and Workshops>

Jang Hoon Kim, "Seismic Consideration of Reinforced Concrete Wall Section", Proceedings of KCI Conference – Spring, 15(1), pp. 210-215, 2003. 5. (in English)

Jang Hoon Kim, "Energy Absorption Efficiency of Structural Steel System", Proceedings of EESK Conference - Spring, 7(1), pp. 294-301. 2003. 3. (in Korean)

Jang Hoon Kim and Dong Hoon Jwa, "Determination of Damping Modification Factor in RC Structures Due to Energy Absorption Efficiency", Proceedings of KCI Conference - Fall, 14(2), pp. 161-166, 2002. 10. (in Korean)

Jang Hoon Kim and Dong Hoon Jwa, "Alternative Approach to Prediction of Structural Performance Points", Proceedings of EESK Conference - Fall, 6(2), pp. 231-238. 2002. 3. (in Korean)

Jang Hoon Kim and D.H. Jwa, "Seismic Retrofit of Existing RC Walls for Ductility Enhancement", Proceedings of KCI Conference - Fall, 13(2), pp. 1149-1154, 2001. 11. (in Korean)

Jang Hoon Kim and S.H. Ahn, "Confinement Effectiveness on Compressive Zone of RC Walls", Proceedings of KCI Conference - Fall, 13(2), pp. 459-464, 2001. 11. (in Korean)

Jang Hoon Kim, K.H. Kwon, "FE Analysis on In-Plane Behavior of Unreinforced Masonry Walls", Proceedings of COSEIK Symposium - Fall, pp. 14(2), 45-52, 2001. 10. (in Korean)

Jang Hoon Kim, J.H. Kim, H.K. Park and S.G. Hong, "Reinforced Concrete Wall under In-Plane Flexure at Ultimate State", Proceedings of KCI Conference - Spring, 13(1), pp. 891-896, 2001. 05. (in Korean)

Jang Hoon Kim, J.U. Jung and S.G. Hong, "Theoretical and Experimental Study of Shear Strength of Concrete Circular Sections Using Steel Hoops", Proceedings of KCI Conference - Spring, pp. 515-520, 2000. 05. (in Korean)

Jang Hoon Kim, T.H. Chang, J.K. Kim and J.L. Lee, "Experimental Study on

Seismic Resistance of A Unreinforced Cement Brick Buildings", Proceedings of EESK Conference - Spring, 4(1), pp. 298-307. 2000. 03. (in Korean)

Jang Hoon Kim, K.K. Chang and S.G. Hong, "Korean Practice and Research Status of Seismic Details for Building Structures", Research Board on Seismic Details, KCI Conference - Fall, pp. 176-186, 1999. 11. (in Korean)

Jang Hoon Kim, "Concrete Strength and Shear Strength", Research Board on Concrete Shear, KCI Conference - Fall, pp. 42-53, 1999. 11. (in Korean)

Jang Hoon Kim and Se-Jin Oh, "Shear Resistance of Concrete Circular Columns due to Arch Action: Experimental Study", Proceedings of EESK Conference - Fall, 3(2), pp. 178-185. 1999. 09. (in Korean)

Jang Hoon Kim, "Capacity Detailing of Members to Ensure Elastic Behavior", Proceedings of EESK Conference - Spring, 3(1), pp. 119-126. 1999. 03. (in Korean)

Jang Hoon Kim and L.H. Lee, "Seismic Energy Absorption Capacity in R.C. Structures", Proceedings of EESK Conference - Fall, 1(2), pp. 217-224. 1997. 09. (in Korean)

<Books>

Jang Hoon Kim, "Seismic Design Philosophy Made Easy", Jeyoung, 216 pages, 2008. 07. (in Korean)

H.S. Han, **Jang Hoon Kim**, J.K. Kim, Y.H. Oh, H.S. Lee, J.C. Jung, and S.J. Hong, "Introduction to IBC 2000 and Commentary", Taerim Publisher, 262 pages, 2003. 06. (in Korean)

<Technical Reports>

K.H. Kwon, S.S. Koh, **Jang Hoon Kim**, C.H. Song, H.S. Lee, K.K. Jang, C.Y. Jung, S.H. Ha, and C. Hyun, "Seismic Retrofit of Masonry Buildings", City of Seoul, Korea, pp. 146, 2001. 06. (in Korean)

Jang Hoon Kim and John B. Mander, "Truss Modeling of Reinforced Concrete Shear-Flexure Behavior", MCEER-99-0005, Multidisciplinary Center for Earthquake Engineering Research, U.S.A., 1999. 03.

John B. Mander, **Jang Hoon Kim** and A. Dutta, "Fatigue Analysis of Unconfined Concrete Columns", MCEER-98-0009, Multidisciplinary Center for Earthquake Engineering Research, U.S.A., 1998. 09.

John B. Mander, **Jang Hoon Kim** and C. A. Ligozio, "Seismic Performance of a Model Reinforced Concrete Bridge Pier Before and After Retrofit", NCEER-96-0009, National Center for Earthquake Engineering Research, U.S.A., 1996. 05.