

CURRICULUM VITAE

Name : Seung-Deog Kim
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Education

Master Degree 1984-1986 Sungkyunkwan University, Korea
Awarded the degree of M. Eng. for a thesis entitled "Elasto-plastic analysis of circular cylindrical shell with horizontal load".
Work supervised by Professor Taek-Jin Kwun

Doctoral Degree 1988-1991 University of Tokyo, Japan
Awarded the degree of Dr. Eng. for a thesis entitled "Dynamic stability of shallow structures".
Work supervised by Professor Yasuhiko Hangai

Research and professional experience

1991-1992 Post-doctoral researcher at Institute of Industrial Science, University of Tokyo, Japan, working under Professor Y. Hangai

1992-1993 Visiting Scholar at School of Aeronautics and Astronautics, Purdue University, USA, working under Professor C. T. Sun

1994-1995 Researcher at Institute of Science and Technology, Sungkyunkwan University, Korea

1995-1996 Researcher at Housing Research Institute, Korea National Housing Corporation, Korea

1996-present Professor at Department of Architectural Engineering, Semyung University, Korea

2007-2008 Visiting Scholar at Department of Civil Engineering, Ottawa University, Canada, working under Professor H. Tanaka

2008-present Member of Executive council, IASS(International Association for Shell and Spatial Structures)

2011-present President, KASS(Korean Association for Shell and Spatial Structures)

Technical experiences

1. Development of an elasto-plastic analytical method using rigid element and expansion of its applicable range.
2. Three-dimensional analysis of R.C. structures composed of only walls and slabs by the finite element method.
3. Dynamic buckling analysis of shallow space trusses considering geometrical nonlinearity by the finite element method.
4. Dynamic buckling analysis of shallow E.P. shells considering geometrical nonlinearity by the Galerkin's method.
5. Development of a geometrical nonlinear analytical program for hybrid structures including membranes, cables and trusses, by the finite element method.

Selected Papers

1. Seung-Deog Kim, Ill-Gyo Suh, and Taek-Jin Kwun, "A Study on the Reinforced Concrete Beams with Web Opening (IV):Stress Analysis of Beam with Web Opening by the R.E.M.," Proceedings of the Architectural Institute of Korea, Vol.5, NO.1, 1985.4., pp.365-368. (Korean)
2. Samuel Suh, Seung-Deog Kim, Taek-Jin Kwun, and Yang-Boo Kim, "A Study on the Reinforced Concrete Beams with Web Opening (III):Stress analysis of the beam with web opening by Finite Element Method," Proceedings of the Architectural Institute of Korea, Vol.5, No.1, 1985.4., pp.361-364. (Korean)
3. Seung-Deog Kim, Samuel Suh, and Taek-Jin Kwun, "A Study on the Generalization of Circular Cylindrical Element by the R.E.M.," Proceedings of the Architectural Institute of Korea, Vol.4, NO.2, 1985.9., pp.377-380. (Korean)
4. Ill-Gyo Suh, Seung-Deog Kim, and Taek-Jin Kwun, "Stress Analysis of Perforated Plate using Boundary Element Method," Proceedings of the Architectural Institute of Korea, Vol.5, No.2, 1985.9., pp.373-376. (Korean)
5. Seung-Deog Kim, and Taek-Jin Kwun, "Elasto-Plastic Analysis of Circular Cylindrical Shell with Horizontal Load," Proceedings of the Architectural Institute of Korea, Vol.6, No.1, 1986.4., pp.453-458. (Korean)
6. Seung-Deog Kim, Taek-Jin Kwun, and Gang-Geun Park, "Elasto-Plastic Analysis of Internal Pressure Vessel by Rigid Element Method," Journal Natural Science and Technology, Sung Kyun Kwan University, Vol.37, no.1, 1986, pp.167-176. (Korean)
7. Taek-Jin Kwun, and Seung-Deog Kim, "Elasto-Plastic Analysis of Spherical Shells by the Rigid Element Method," Proceedings of IASS Symposium on Shells, Membranes and Space Frames, Osaka, Vol.1, 1986, pp.137-144. (English)
8. Seung-Deog Kim, Sang-Eul Han, and Taek-Jin Kwun, "Elasto-Plastic Analysis of the Truncated Hemispherical Shell with Cylinder by the Rigid Element Method," Proceedings of the Architectural Institute of Korea, Vol.6, No.2, 1986.10., pp.331-334. (Korean)
9. Gang-Geun Park, Myung-Chae Jeong, Seung-Deog Kim, and Taek-Jin Kwun, "A Theoretical Study of Shell Element with Bending in Rigid Element Method," Proceedings of the Architectural Institute of Korea, Vol.6, No.2, 1986.10., pp.335-338. (Korean)
10. Taek-Jin Kwun, Seung-Deog Kim, and Kang-Geun Park, "Elasto-Plastic Analysis of Internal Pressure Vessel by the Shell Element Considering Bending Moment by the Rigid Element Method," Journal Natural Science and Technology, Sung Kyun Kwan University, Vol.37, No.2, 1986., pp.459-469. (Korean)
11. Kang-Geun Park, Myung-Chae Jeong, Seung-Deog Kim, and Taek-Jin Kwun, "The Elasto-Plastic Analysis of Hemisphere Supported with Cylinder by the Shell Bending Element by the Rigid Element Method," Proceedings of the Architectural Institute of Korea, Vol.7, No.1, 1987.4., pp.365-370. (Korean)