

K. C. (Kwang-Chun) Park, Professor of Aerospace Engineering
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Education

Ph.D., Systems Engineering, 1974, Clarkson College, Potsdam, NY
M.S., Mechanical Engineering, 1970, Stanford University, Palo Alto, CA
BS, Mechanical Engineering 1966, Inha Institute of Technology, Inchon, Korea

Research Interests

Modeling of multiphysics, contact and interface problems, parallel computations of nonlinear structures, dynamics and control of aerospace structures, system identification and structural health monitoring, fluid-structure interactions, MEMS and adaptive structures.

Professional Experience

Professor of Aerospace Engineering (1985-date), University of Colorado, Boulder, Colorado. Director (1986- 1989), Center for Space Structures and Controls. Director (1991-1997), Center for Aerospace Structures.
Technical Director (1987-1988), Center for Space Construction.
Research Scientist (1974-1979), Staff Scientist (1979-1983), Senior Staff Scientist (1983-1985), Palo Alto Research Laboratory, Lockheed Missiles and Space Co., Palo Alto, CA.
Visiting Scientist (10/1979-3/1980), NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, Langley Research Center, Hampton, Virginia.
Senior Structural Engineer (4/1973-3/1974), LOCKHEED-CALIFORNIA COMPANY, Burbank, California.
Research Assistant (6/1972-3/1973), The Fatigue Institute, GEORGE WASHINGTON UNIVERSITY, Washington, D. C.

Visiting Professorships

Spring, 1992: Massachusetts Institute of Technology, Dept of Aeronautics and Astronautics. Cambridge, MA.
Fall, 1992: Institute of Space and Astronautical Science, Tokyo, Japan.
Summer, 1992: Ecole Normale Supérieure de Cachan, 94235 Cachan Cedex, France.
Summer, 1996: University of Paris VI and Joseph Fourier University of Grenoble
Fall, 1997: Conservatoire National des Arts et Métiers, Paris, France
Fall, 1999- Spring, 2000: MIT, Dept of Aeronautics and Astronautics. Cambridge, MA.

Professional Activities

Fellow, American Society of Mechanical Engineers: Committee on Computing in Applied Mechanics (1976-present) and Adaptive Structures and Materials Committee (1991-present). Technical Program Chairman, 1990 AIAA Dynamics Specialist Conference. Member (1985-1993), NASA/OAST Space Systems and Technology Advisory Committee.
Editorial Boards: Communications in Applied Numerical Methods, Int'l Journal of Numerical Methods in Engineering, Computers & Structures: An International Journal

Selected Publications

Over 180 publications in refereed journals and Conference Proceedings; 3 research monographs edited
Park, K. C., Felippa, C. A. and Ohayon, R., "Reduced-Order Partitioned Modeling of Coupled Systems: Formulation and Computational Algorithms," *Proc. NATO-ARW Workshop on Multi-physics and Multi-scale Computer Models in Non-linear Analysis and Optimal Design of Engineering Structures Under Extreme Conditions*, Bled, Slovenia, June 13-17, 2004.
Park K. C. and Park, Yong Hwa, "Partitioned Component Mode Synthesis via A Flexibility Approach," *AIAA Journal*, 2004, vol.42, no.6, 1236-1245.
Sakamoto, H., Park, K. C. and Miyazaki, Y., "Dynamic Wrinkle Reduction Strategies for Cable Suspended Membrane Structures," Paper No. AIAA-2004-1581, *Proc. the 45th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference (SDM)*, 19-22 April 2004, Palm Springs, CA.
Park, Y.H and Park, K. C., "Anchor Loss Evaluation of MEMS Resonators - II: Coupled Substrate-Resonator Simulation and Validation," *Journal of Microelectromechanical Systems*, Vol. 13, No. 2, 2004, 248-257.
Park, K. C. and Felippa, C. A., "A Variational Principle for the Formulation of Partitioned Structural Systems," *International Journal of Numerical Methods in Engineering*, vol. 47, 2000, 395-418.
Alvin, K. F., Robertson, A. N., Reich, G. W. and Park, K. C., "Structural system identification: from reality to models," *Computers & Structures*, **81(2003)**, 1149-1176.
K. C. Park, C. A. Felippa and G. Rebel, (2002), "A Simple Algorithm for Localized Construction of Nonmatching Structural Interfaces," *International Journal of Numerical Methods in Engineering*, 2002; **53**:2117-2142.

