

Chan, Wai Leung

CONTACT INFORMATION	Address	9228A Regents Rd, La Jolla, CA-92037, USA
	Phone	Home: (858) 535-8229 Office: (858) 534-6146
	E-mail	waileung@ucsd.edu
RESEARCH INTERESTS	Linear control, systems design, theoretical and numerical analysis of deployable structures, experimental design and construction of structures for active vibration isolation and deployment, left-handed material design and analysis.	
EDUCATION	2002 - present	PhD Candidate, Mechanical and Aerospace Engineering, University of California, San Diego (graduation date: June, 2004) Advisor: Robert E. Skelton
	1999-2002	M.S., Mechanical and Aerospace Engineering, University of California, San Diego
	1997-1999	M.S., Physics, University of California, San Diego (qualified, not official)
	1994-1997	B.S., Physics, Hong Kong University of Science and Technology
AWARDS	<ul style="list-style-type: none">• Dissertation Fellowship, Dept. of MAE, University of California, San Diego, 2004.• Tuition Award, Dept. of Physics, University of California, San Diego, 1997/1998.• Madam Wong Ming-Yeun Scholarships, Hong Kong, 1996/1997.	
ACADEMIC AND WORKING EXPERIENCE	1999 - present	Research Assistance/Graduate Student, Structural Systems and Control Laboratory, Dept. of Mechanical and Aerospace Engineering, University of California, San Diego. <i>Static and dynamics analysis of deployable structures, experimental design and construction of tendon controlled structures using piezoelectric sensors/actuators, microprocessors and motors for active damping and deployment.</i>
	1997-1999	Teaching Assistance/Graduate Student, Dept. of Physics, University of California, San Diego. <i>Discussion sections and problem sessions, grading quizzes and exams.</i>
	1995-1997	Research Assistance/Undergraduate Student, Dept. of Physics, Hong Kong University of Science and Technology. <i>Micro-Fabrication of semiconductor for optical devices, material characterization, random network (coaxial cables) setup and data acquisitions for microwave propagation (Energy localization).</i>
	1994-1995	Clerk, Yasuda Reinsurance Company Ltd. <i>General office work, data entry, part-time.</i>
PUBLICATIONS	Wai Leung Chan, Diego Arbelaez, Frederic Bossens, Robert.E.Skelton <i>Active vibration control of a three-stage tensegrity structure</i> SPIE 11th Annual International Symposium on Smart Structures and Materials, San Diego, 2004 Waileung Chan, Robert E. Skelton. <i>Equilibria and Stiffness of Planar Tensegrity Structures</i> . AAS / AIAA Space Flight Mechanics Meeting, San Antonio, Texas, January 2002. Skelton, R.E., Helton, J.W., Adhikari, R., Pinaud, J.P., Chan, W., <i>An Introduction to the Mechanics of Tensegrity Structures</i> . Proceedings of 40th IEEE, Conference on Decision and Control, 2001. Skelton, R.E., Helton, J.W., Adhikari, R., Pinaud, J.P., Chan, W., <i>An Introduction to the Mechanics of Tensegrity Structures</i> . The Mechanical Systems Design Handbook: Modeling, Measurement, and Control, CRC Press, 2001. T.T.H. Eng, J.Y.L. Ho, P.W.L. Chan, S.C. Kan, G.K.L. Wong, <i>Large Core (~60μm) SOI Multimode Waveguides for Optical Interconnect</i> . IEEE Photonics Technology Letters, Vol, 8, No. 9, September 1996.	
SKILLS	<ul style="list-style-type: none">• System identification, linear, nonlinear, robust and adaptive control, fiber optics.• Finite element method, numerical linear algebra, differential equations and optimization.• AutoCAD, Solid Work, Labview, Matlab, Simulink, Mathematica, C/C++, Pascal, MS-office, Linux, OpenGL, Latex, Image processing using Matlab and OpenGL, HFSS software for electromagnetic simulation.• Machining, D-space, vector analyzer and other common laboratory electronics equipments.	