



## Professor Jian-Qiao Sun

See:

<https://www.ucmerced.edu/content/jian-qiao-sun>

<https://scholar.google.com/citations?user=deaGTwsAAAAJ&hl=en>

<http://neo.cinvestav.mx/NEO2015/index.php/component/k2/item/18-jian-qiaosun>

<https://citris-uc.org/person/professor-jian-qiao-sun/>

Chair of Mechanical Engineering, School of Engineering, University of California Merced, USA

Formerly:

The University of Delaware

### Education:

Ph.D., M.S., 1988 — University of California, Berkeley

B.S., 1982 — Huazhong University of Science and Technology, Wuhan, China

### Research Interests:

Vibrations, Noise control, Sensors, Actuators, Bio-Mechanics

### Selected Publications:

#### Books:

Jian-Qiao Sun & Albert C.J. Luo, Bifurcation and Chaos in Complex Systems, Vol. 1, Advances in Nonlinear Science & Complexity, Elsevier, 400 pages

Jian-Qiao Sun and Albert C.J. Luo (Editors), Global Analysis of Nonlinear Dynamics, Springer, 2012, 301 pages

### Journal Articles, etc.:

Sun, J.-Q. and Hsu, C.S., Random vibration of hinged elastic shallow arch J. Sound and Vibration, 132 (1989) 299–315.

M. R. Garrison, R. N. Miles, J. Q. Sun, and W. Rao, "Random response of a plate partially covered by a constrained layer damper," *Journal of Sound and Vibration*, vol. 172, no. 2, pp. 231–245, 1994

Sun, J.Q., Jolly, M.R., Norris, M.A.: Passive, adaptive and active tuned vibration absorbers—a survey. *J. Mech. Des.* 117, 234–242 (1995)

V. Jayachandran and J.Q. Sun, "Modeling shallow-spherical-shell piezoceramic actuators as acoustic boundary control elements", 1998 *Smart Mater. Struct.* Vol. 7, 1998, p. 72

P. Thamburaj and J. Q. Sun, "Optimization of anisotropic sandwich beams for higher sound transmission loss," *Journal of Sound and Vibration*, vol. 254, no. 1, pp. 23–36, 2002.

E. Bozhevolnaya, J.Q. Sun, "Free Vibration Analysis of Curved Sandwich Beams", *J Sandwich Struct Mater*, 6 (2004), pp. 47-73

H. Denli, J.Q. Sun, Structural-acoustic optimization of sandwich structures with cellular cores for minimum sound radiation, *J Sound Vib* (2007), pp. 93-105

L. Chen and J.-Q. Sun, "The closed-form solution of the reduced Fokker-Planck-Kolmogorov equation for nonlinear systems," *Communications in Nonlinear Science and Numerical Simulation*, vol. 41, pp. 1–10, 2016.

Xia Tan, Hu Ding, Jian-Qiao Sun and Li-Qun Chen, "Primary and super-harmonic resonances of Timoshenko pipes conveying high-speed fluid", *Ocean Engineering*, Vol. 203, Article 107258 1 May 2020