

# Biography



## Prof. C. W. Lim

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Professor

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### Qualifications

1994 Ph.D, Nanyang Technological University, Singapore, Mechanical Engineering  
1991 M.Sc., National University of Singapore, Singapore, Mechanical Engineering  
1989 B.Sc., University of Technology (UTM), Malaysia, Mechanical Engineering (Aero)

### Publications(Selected)

1. Book: W.A. Yao, W.X. Zhong and C.W. Lim, Symplectic Elasticity, World Scientific, Singapore, 2009 (Bestselling title in Engineering Mechanics as in April 2011; 2011 catalogue for Civil Engineering; 2012 catalogue for Mechanical Engineering)
2. CW Lim, KM Liew, A pb-2 Ritz formulation for flexural vibration of shallow cylindrical shells of rectangular planform, *J. Sound Vib.*, 173(3), 343-375, 1994. (44 cites)
3. CW Lim, KM Liew, A higher order theory for vibration of shear deformable cylindrical shallow shells, *I. J. Mech. Sci.*, 37(3), 277-295, 1995. (20 cites)
4. KM Liew, CW Lim, S Kitipornchai, Various theories for vibration of shallow shells: A review with bibliography, *ASME Appl. Mech. Rev.*, 50(8), 431-444, 1997. (72 cites)
5. ZQ Cheng, CW Lim, S Kitipornchai, Three-dimensional asymptotic approach to inhomogeneous and laminated piezoelectric plates, *I. J. Solids Struct.*, 37(23), 3153-3175, 2000. (39 cites)
6. CW Lim, LH He, Exact solution of a compositionally graded piezoelectric layer under uniform stretch, bending and twisting, *I. J. Mech. Sci.*, 43(11), 2479-2492, 2001. (38 cites)
7. CW Lim, BS Wu, A modified Mickens procedure for certain nonlinear oscillators, *J. Sound Vib.*, 257(1), 202-206, 2002. (31 cites)
8. CW Lim, BS Wu, A new analytical approach to the Duffing-harmonic oscillator, *Phy.Let. A*, 311, 365-373, 2003. (41 cites)
9. L.H. He, C.W. Lim and B.S. Wu, A continuum model for size-dependent deformation of elastic films of nano-scale thickness, *I. J. Solids Struct.*, 41(3-4), 847-857, 2004. (2004 to 2008 Most Cited Articles Award)
10. C.W. Lim, Z.R. Li and G.W. Wei, DSC-Ritz method for high-mode frequency analysis of thick shallow shells, *I. J. Num. Meth. Eng.*, 62(2), 205-232, 2005. (30 cites)
11. C.W. Lim, B.S. Wu and W.P. Sun, Higher accuracy analytical approximations to the Duffing-Harmonic oscillator, *J. Sound Vib.*, 296(4-5), 1039-1045, 2006. (31 cites)
12. CW Lim, ZR Li, LH He, Size dependent, nonuniform elastic field inside a nano-scale spherical inclusion due to interface stress, *I. J. Solids Struct.*, 43(17), 5055-5065, 2006. (22 cites)

### Profile Details

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## Biography

Currently fellows for ASME, ASCE, HKIE and ISEAM, Ir Professor Lim received a first degree from University of Technology of Malaysia, M.Eng. and PhD from National University of Singapore and Nanyang Technological Univ., respectively. Prior to joining CityU, he was a post-doctoral research fellow at The University of Queensland and The University of Hong Kong. Professor Lim is also a visiting professor at various universities including the University of Western Sydney, Dalian University of Technology, Huazhong University of Science and Technology, etc. He has expertise in vibration of plate and shell structures, dynamics of smart piezoelectric structures, nanomechanics and symplectic elasticity. He is one of the Editors for Journal of Mechanics of Materials and Structures, Associate Editor (Asia-Pacific Region) for Journal of Vibration Engineering & Technologies, Associate Editor for International Journal of Bifurcation and Chaos, subject editor for Applied Mathematical Modeling, etc. and also on the editorial board of a few other international journals. He has published one very well-selling title in Engineering Mechanics entitled “Symplectic Elasticity”, co-authored with W.A. Yao and W.X. Zhong, as recorded in April 2010 by the publisher, World Scientific. He has published more than 230 international journal papers, accumulated more than 3200 independent citations, and one of the papers was granted the IJSS 2004-2008 most cited article award. He was also awarded Top Referees in 2009, Proceedings A, The Royal Society. Professor Lim is also a registered professional engineer (RPE) in Hong Kong.

## Research Interest

Vibration, theory of plates and shells, nonlinear dynamics, structural dynamics, smart materials, nonlocal theory in nanomechanics, symplectic elasticity.