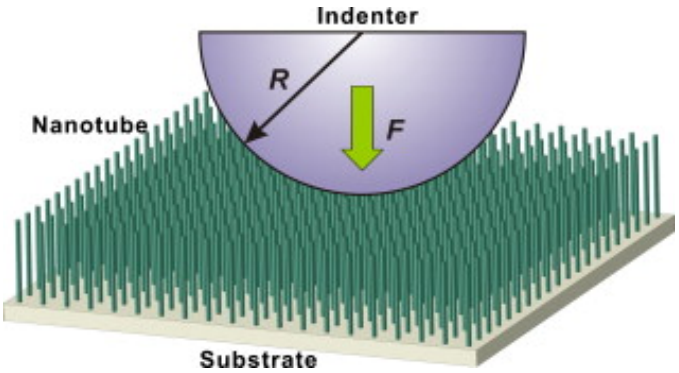
Professor Lifeng Wang (L.F. Wang)



L. F. Wang, C. Ortiz, and M. C. Boyce, "Mechanics of Indentation into Micro and Nanoscale Forests of Tubes, Rods or Pillars", ASME Journal of Engineering Materials and Technology 133, 011014 (2011).

See:
http://me.eng.sunysb.edu/~wanglf/
http://me.eng.sunysb.edu/~wanglf/people.html
http://me.eng.sunysb.edu/~wanglf/publication.html
http://me.eng.sunysb.edu/index.php?option=com_content&view=article&id=136%3Alifeng-wang&catid=45%3Afaculty&Itemid=175

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Education:
Tsinghua University, Ph.D. & M. S. 2006
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Professional Experience:
Department of Mechanical Engineering, Stony Brook University, 2013 – present
Department of Civil and Environmental Engineering, Clarkson University, 2011-2013

Department of Mechanical Engineering, Massachusetts Institute of Technology, 2006-2011

Biography:
Lifeng Wang's research interests include materials modeling, computational mechanics, micro- and nano-mechanics, materials testing and characterization, materials fabrication, rapid prototyping and 3D printing; mechanical behaviors of polymer fibers, thin films, microstructures, and composites; design and nanomechanics of biological materials, cells, and bio-inspired materials; and mechanics of carbon nanotubes, graphite, and their composites. Lifeng Wang received his B.E. and Ph.D. both from Tsinghua University, majoring in Solid Mechanics. Before joining Stony Brook, he worked as an assistant professor at Clarkson University and a postdoctoral associate at Massachusetts Institute of Technology. Lifeng Wang has coauthored 25 journal articles and 1 US patent and has presented at even more conferences. He serves as a frequent reviewer for many journals and conferences. He received the National Science Award from China's Ministry of Education and China's National Excellent Doctoral Dissertation Award. He is a member of the Materials Research Society, American Physical Society and American Society of Mechanical Engineers.

Selected Publications:
M. R. Ren, J. Z. Liu, L. F. Wang, and Q. S. Zheng, "Anomalous elastic buckling of hexagonal layered crystalline materials in the absence of structure slenderness", submitted (2015)

M. D. Ma, L. M. Shen, L. F. Wang and Q.S. Zheng, "Buckling Properties of Pre-Stressed Multi-Walled Carbon Nanotubes", International Journal for Multiscale Computational Engineering 11, 17-26 (2013)

L. F. Wang, C. E. Castro, and M. C. Boyce, "Wrinkled Membrane Morphology of White Blood Cells", Soft Matter 7, 11319-11324 (2011).

L. F. Wang, C. Ortiz, and M. C. Boyce, "Mechanics of Indentation into Micro and Nanoscale Forests of Tubes, Rods or Pillars", ASME Journal of Engineering Materials and Technology 133, 011014 (2011).

M. D. Ma, L. M. Shen, L. F. Wang, and Q.S. Zheng, "Molecular Mechanics and Continuum Mechanics Study of Buckling of Pre-stressed Multi-walled Carbon Nanotubes", in Advances in Heterogeneous Material Mechanics, edited by J. H. Fan, J. Q. Zhang, H. B. Chen, and Z. H. Jin, DEStech Publications, Inc., 2011, p. 373-376.

L. F. Wang, C. L. Pai, M. C. Boyce and G. C. Rutledge, "Wrinkled Surface Topographies of Electrospun Polymer Fibers", Applied Physics Letters 94, 151916 (2009).

Q. S. Zheng, L.F. Wang and Z. P. Xu, "Chapter 5: Multi-discipline nanomechanics", in Microsystems and Nanotechnology, Beijing: Science Press, 2007, p.167-197.

L. F. Wang and Q. S. Zheng, "Instability of carbon nanotubes studied using a hybrid atom/continuum approach", in IUTAM Symposium on Mechanical Behavior and Micro-mechanics of Nanostructured Materials, edited by Y. L. Bai, Q. S. Zheng, and Y. G. Wei, Springer-Verlag, Berlin, 2007, p. 145-152.

L. F. Wang, Q. S. Zheng, J. Z. Liu, and Q. Jiang, "Size Dependence of the Thin-Shell Model for Carbon Nanotubes", Physical Review Letters 95, 105501 (2005).