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Brief CV : Dr. Ru is currently a professor in the department of mechanical engineering, university of Alberta, Canada. Dr. Ru received his doctorate in solid mechanics at Peking university in China. After then he briefly worked in the Institute of Mechanics, Chinese Academy of Science, then Dr. Ru held a number of research positions as a visiting scholar, postdoctoral fellow or research associate in several universities in Italy, USA and Canada. He joined the University of Alberta in 1997 as a faculty member. Dr. Ru's past research areas include dynamic buckling of plastic structures, mechanics of composite materials, electroelastic mechanics, carbon nanotubes, and some applied mathematics problems related to solid mechanics. His recent research interests include traditional solid mechanics, nano/micro-mechanics of solid materials, thin-film materials, soft matter mechanics, metaelastic dynamics of composite materials.

Recent Publications

JC Meng & CQ Ru (2021) Effective mass density of rigid sphere-reinforced elastic composites. *Mechanica*.

CQ Ru (2020) A simplified metaelastic model for coated sphere-filled random composites. *Math. & Mech. Solids*.

Lei Zhang & CQ Ru. (2020). an extended JKR model for adhesion of a rigid sphere on a supported compressible elastic thin layer. *Z. Angew. Math. Phys.(ZAMP)*.

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J Yoon & CQ Ru. (2019). metamaterial-like vibration of doublewalled carbon nanotubes. *Physica E*. 107: 196-202.

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L Lu*, CQ Ru & XM Guo. (2019). vibration isolation of few-layer graphene sheets. *Int. J. Solids & Structures*. 185: 78-88.

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L Zhang & CQ Ru. (2019). a refined JKR model for adhesion of a rigid sphere on a soft elastic substrate. *J. Appl. Mech. (ASME)*. 86(051004).

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- M Dai*, CQ Ru & CF Gao. (2017). uniform stress fields inside multiple inclusions under anti-plane shear. Mathematics and Mechanics of Solids. 22: 114-128.
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- L Lu*, CQ Ru & XM Guo. (2017). vibration of a multilayer graphene sheet under layerwise tension forces. Int. J. Mechanical Science. 121: 157-163.
- L Lu*, CQ Ru & XM Guo. (2017). negative effective mass of a filled carbon nanotube. Int. J. Mechanical Science. 134: 174-181.
- YM Yue*, CQ Ru & KY Xu. (2017). modified von Karman equations for elastic plates with surface tension and surface elasticity. Int. J. Nonlinear Mechanics. 88: 67-73.
- YJ Wang & CQ Ru. (2016). determination of two key parameters of a cohesive zone model for pipeline steel. Engineering fracture mechanics. 163: 55-65.
- J Wu, CQ Ru, L Zhang & L Wan. (2016). on geometrical shape of an in-plane inclusion of polynomial internal stress field. Applied Mathematics & Mechanics. 37: 1113-1130.
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