



Professor Khanh Chau Le

See:

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Summary:

There are two main topics of my research works: dynamics and mechanics of materials. Both use variational method based on the variational principles for conservative and dissipative systems. In case the variational problem contains a small parameter, the variational-asymptotic method turns out quite effective.

Selected Publications:

Books:

Khanh Chau Le, *Vibrations of Shells and Rods*, Springer, 2012 (1999?), 423 pages

Khanh Chau Le and Lu Trong Khiem Nguyen, *Energy Methods in Dynamics*, Springer, 2014, 413 pages

Journal Articles, etc.:

V.L. Berdichevskii and Khanh Chau Le, "High-frequency long-wave shell vibration", *Journal of Applied Mathematics and Mechanics*, Vol. 44, No. 4, pp 520-525, January 1980

Khanh Chau Le, "High-frequency long-wave vibrations of piezoelectric ceramic plates", *Soviet Physics Doklady*, Vol. 27, p 422, May 1982

V.L. Berdichevskii and Khanh Chau Le, "High-frequency vibrations of shells", *Soviet Physics Doklady*, Vol. 27, p 988, November 1982

K.C. Le, "Fundamental relations of the theory of anisotropic piezoelectric shells", *Moscow University Mechanics Bulletin*, Vol. 39, No. 5, pp 57-60, 1984

K.C. Le, "On the edge resonance of the semi-infinite elastic plate", *Moscow University Mechanics Bulletin*, Vol. 40, No. 5, pp 57-60, 1985

Khanh Chau Le, "High-frequency vibrations of piezoelectric ceramic shells", Soviet Physics Doklady, Vol. 30, p 899, October 1985

Khanh Chau Le, "The theory of piezoelectric shells", Journal of Applied Mathematics and Mechanics, Vol. 50, No. 1, pp 98-105, December 1986

Helmut Stumpf and Khanh Chau Le, "On shakedown of elastoplastic shells", Quarterly of Applied Mathematics, Vol. 49, No. 4, pp 781-793, 1991

Khanh Chau Le, "High frequency vibrations and wave propagation in elastic shells: Variational-asymptotic approach", International Journal of Solids and Structures, Vol. 34, No. 30, pp 3923-3939, October 1997

Khanh Chau Le and Jeong-Hun Yi, "An asymptotically exact theory of smart sandwich shells", International Journal of Engineering Science, Vol. 106, pp 179-198, June 2016

Khanh Chau Le, "An asymptotically exact theory of functionally graded piezoelastic shells", International Journal of Engineering Science, Vol. 112, pp 42-62, January 2017

Khanh Chau Le and Tuan Minh Tran, "Asymptotically exact theory of fiber-reinforced composite beams", Composite Structures, Article ID 112279, March 2020