



Professor Dao Van Dung (Fig. 2 above is from: Dao Van Dung and Hoang Van Tung, “Stability of the elastoplastic thin round cylindrical shells subjected to torsional moment at two extremities”, Vietnam National University Journal of Science, Mathematics, Physics, T.XXI, NO. 3, 2005)

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Department of Mechanics

Vietnam National University, Ha Noi, Viet Nam, also Hanoi University of Science

Research Interests:

Stability problems of thin plates and shells subjected to complex loading processes;
 Dynamic problems of elastoplastic and composite structures;
 Calculating the stress and strain state of elastoplastic structures;
 Calculating vibration and stability of structures by finite element method.

Selected Publications:

Dao Van Dung and Dao Huy Bich, 1986, “On the stability of thin shells in the theory of elastoplastic deformation processes, Journal of Mechanics, Vol. 8, No. 3, pp 6-12

Dao Van Dung, 1987, “On the stability of thin plates in the theory of elastoplastic deformation processes, Journal of Mechanics, Vol. 9, No. 2, pp 18-22

Dao Van Dung, 1988, “Stability of thin shells subjected to complex loading”, Journal of Mech, Vol. 10, No. 1, pp 8-16

Dao Van Dung, 1989, “Stability problems of conical shells according the theory of elastoplastic processes”, Journal of Mechanics, Vol. 11, No. 2, pp 10-16

Dao Van Dung, 1993, “Stability of thin plates subjected to biaxial compressions with complex loading trajectory”, Journal of Mechanics, Vol. 15, No. 2, pp 7-12

- Dao Van Dung, 1993, "Stability of cylindrical shells simultaneously subjected to axial compression and outside lateral pressure", *Journal of Mechanics*, Vol. 15, No. 4, pp 17-23
- Dao Van Dung, 1997, "Solving method for elastoplastic stability problem of plates made in compressible material, subjected to complex loading", *Proc. 6th National Conference on Mechanics*, Nanoi 3-5 December, pp 69-76
- Dao Van Dung, 2001, "Solving method for a stability problem of elastoplastic cylindrical shells with compressible material subjected to complex loading processes", *Vietnam Journal of Mech*, Vol. 23, No. 2, pp 69-86
- Dao Van Dung, 2003, "On the elastoplastic stability problem of the cylindrical panels subjected to the complex loadings with the simply supported and clamped boundary constraints", *Journal of Science, VNU*, Vol. XIX, No. 3, pp 8-17
- Dao Van Dung and Hoang Van Tung (Dept. of Mathematics, College of Science, Vietnam National University, Hanoi, Vietnam), "Stability of the elastoplastic thin round cylindrical shells subjected to torsional moment at two extremities", *Vietnam National University Journal of Science, Mathematics, Physics*, T.XXI, NO. 3, 2005
- Dao Van Dung and Le Kha Hoa, "Nonlinear analysis of buckling and postbuckling for axially compressed functionally graded cylindrical panels with the poisson's ratio varying smoothly along the thickness", *Vietnam Journal of Mechanics*, Vol. 34, No. 1, 2012
- Dao Van Dung and Le Kha Hoa, "Solving Nonlinear Stability Problem Of Imperfect Functionally Graded Circular Cylindrical Shells Under Axial Compression By Galerkin's Method", *Vietnam Journal of Mechanics, VAST*, Vol. 34, No. 3 (2012), pp. 139 – 156
- D.H. Bich, D.V. Dung, V.H. Nam, Nonlinear dynamical analysis of eccentrically stiffened functionally graded cylindrical panels, *Composite Structures* 94 (2012) 2465–2473
- Dao Van Dung and Le Kha Hoa, "Research on nonlinear torsional buckling and post-buckling of eccentrically stiffened functionally graded thin circular cylindrical shells", *Composites Part B: Engineering*, Vol. 51, pp. 300-309, August 1, 2013
- Dao Van Dung and Nguyen Thi Nga (Vietnam National University, Hanoi, Viet Nam), "Nonlinear buckling and post-buckling of eccentrically stiffened functionally graded cylindrical shells surrounded by an elastic medium based on the first order shear deformation theory", *Vietnam Journal of Mechanics*, Vol. 35, No. 4, 2013
- Van Dung, D, Hoa, L.K., Nga, N.T. and Anh, L.T.N., "Instability of eccentrically stiffened functionally graded truncated conical shells under mechanical loads", *Composite Structures*, Vol. 106, pp 104-113, 2013
- Bich, D. H., Dung, D. V., and Nam, V. H. Nonlinear dynamic analysis of eccentrically stiffened imperfect functionally graded doubly curved thin shallow shells. *Composite Structures*, 96, 384–395 (2013)
- Dung, D. V. and Hoa, L. K. Nonlinear buckling and post-buckling analysis of eccentrically stiffened functionally graded circular cylindrical shells under external pressure. *Thin-Walled Structures*, 63, 117–124 (2013)
- Dao Huy Bich, Dao Van Dung, Vu Hoai Nam and Nguyen Thi Phuong, "Nonlinear static and dynamic buckling analysis of imperfect eccentrically stiffened functionally graded circular cylindrical thin shells under axial compression", *International Journal of Mechanical Sciences*, Vol. 74, pp 190-200, September 2013
- Vu Hoai Nam, Nguyen Thi Phuong, Dao Huy Bich and Dao Van Dung, "Nonlinear static and dynamic buckling of eccentrically stiffened functionally graded cylindrical shells under axial compression surrounded by an elastic foundation", *Vietnam Journal of Mechanics*, Vol. 36, No. 1, 2014
- Van Dung, D and Nam, V, "An analytical approach to analyze nonlinear dynamic response of eccentrically stiffened functionally graded circular cylindrical shells subjected to time dependent axial compression and external pressure Part 2: Numerical results and discussion", *Vietnam Journal of Mechanics*, Vol. 36, 2014

Dao Van Dung, Le Kha Hoa, Nguyen Thi Nga, "On the stability of functionally graded truncated conical shells reinforced by functionally graded stiffeners and surrounded by an elastic medium", *Composite Structures* 01/2014; 108:77–90, 2014

Dao Van Dung and Vu Hoai Nam, "Nonlinear dynamic analysis of eccentrically stiffened functionally graded cylindrical thin shells under external pressure and surrounded by an elastic medium", *European Journal of Mechanics/ A Solids*, Vol. 46, pp 42-53, 2014

D.V. Dung, L.K. Hoa, B.T. Thuyet and N.T. Nga, "Buckling analysis of functionally graded material (FGM) sandwich truncated conical shells reinforced by FGM stiffeners filled inside by elastic foundations", *Applied Mathematics and Mechanics*, Vol. 37, No. 7, pp 879-902, July 2016

D.V. Dung and P.M. Vuong, "Nonlinear analysis on dynamic buckling of eccentrically stiffened functionally graded material toroidal shell segment surrounded by elastic foundations in thermal environment and under time-dependent torsional loads", *Applied Mathematics and Mechanics*, Vol. 37, No. 7, pp 835-860, July 2016