Professor George A. Kardomateas

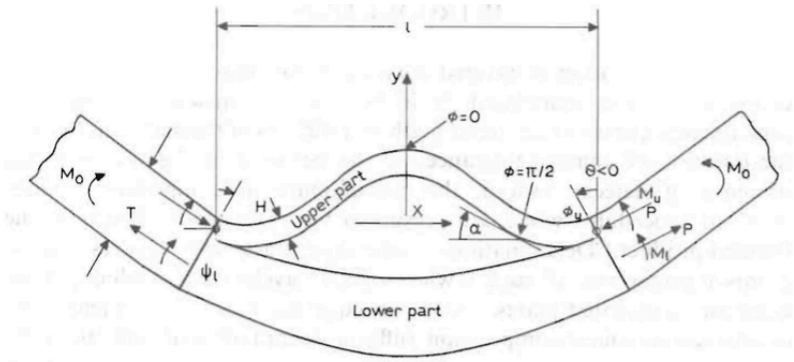

Fig. 1. Definition of the geometry and of the quantities involved in the non-linear model for the post-buckled shape.

From: G.A. Kardomateas, "Snap buckling of delaminated composites under pure bending", Composites Science and Technology, Vol. 39, pp 63-74. 1990

See:
http://kardoma.ae.gatech.edu
http://www.ae.gatech.edu/community/staff/bio/kardomateas-g
http://www.worldcat.org/identities/lccn-nr95-17132
http://journalogy.net/Author/4052497
http://www.sagepub.com/editorDetails.nav?contribId=651327
http://booklens.com/george-a-kardomateas/
http://pubget.com/search?q=authors%3A%22George%20A%20Kardomateas%22

The Daniel Guggenheim School of Aerospace Engineering
Georgia Institute of Technology

Education
Diploma (B.Sc.), Mechanical Engineering, 1981, National Technical University of Athens
M.Sc., Mechanical Engineering, 1982, Massachusetts Institute of Technology
Ph.D., Mechanical Engineering, 1985, Massachusetts Institute of Technology

Biography
Dr. Kardomateas has twenty five years of research experience in the Mechanics of Structures and Materials, both advanced (composite) and conventional (metallic). He is the author (together with R.L. Carlson) of the book: An Introduction to Fatigue in Metals and Composites, published by Chapman and Hall, 1996, the editor of three volumes published by the Applied Mechanics Division of the ASME (American Society of Mechanical Engineers) as well as the author of about one hundred refereed journal papers, about one hundred conference proceedings papers and over twenty articles published as parts of books. He has served as the elected Chairman

of the Applied Mechanics Division Composites Committee of the ASME and the Program Representative of the Aerospace Division Structures and Materials Committee of the ASME. Dr. Kardomateas has served as an Associate Editor of the AIAA Journal, has also served in the AIAA Technical Committee on Structures and as a Contributing Editor of the International Journal of Non-Linear Mechanics. Following his Ph.D. studies, he assumed the position of Senior Research Engineer in the General Motors Research Laboratories, conducting industrial research in the emerging at that time field of advanced composites. In January 1989, Dr. Kardomateas joined the academic faculty at the Georgia Institute of Technology as an Assistant Professor and was promoted to the rank of Associate Professor in 1992 and to the rank of Professor in 1997. Over the last seventeen years, Dr. Kardomateas has been the principal investigator and project director of Academic Grants sponsored by the Office of Naval Research, the Air Force Office of Scientific Research, the Army Research Office, the Federal Aviation Administration and the National Rotorcraft Technology Center as well as of Research Contracts sponsored by the US Air Force Warner Robins Air Logistics Center, Sikorsky Aircraft and General Motors Corp. in the field of fracture/fatigue/structural behavior in both advanced composite and conventional metallic materials and structures. Dr. Kardomateas' research has been published in highly respected journals in the Mechanics area, such as the Journal of Applied Mechanics, the Journal of the Mechanics and Physics of Solids, the AIAA Journal, the International Journal of Fracture, the International Journal of Solids and Structures, the Philosophical Magazine, etc.

Honors and Distinctions

Fellow of the ASME
Associate Fellow of the AIAA

Selected Publications

Li, R. and Kardomateas, G.A., "The Mode III interface crack in piezo-electro-magneto-elastic dissimilar bi-materials", Journal of Applied Mechanics (ASME), vol. 73, pp. 220- 227, 2006.

Li, R. and Kardomateas, G.A., "A Solution to the Thermo-elastic Interface Crack Branching in Dissimilar Anisotropic Bi-material Media", International Journal of Solids and Structures, vol. 43, no. 5, pp. 913-942, 2006.

Liu L. and Kardomateas G.A., "A Dislocation Approach for the Thermal Stress Intensity Factors of a Crack in an Infinite Anisotropic Medium under Uniform Heat Flow", Composites Part A, Vol. 37, issue 7, pp. 989-996, July 2006 (Special Issue on "Composites in Fire").

Li, R. and Kardomateas, G.A., "Thermoelastic Crack Branching in General Anisotropic Media", International Journal of Solids and Structures, vol.42, issues 3-4, pp.1091-1109, February 2005.

Kardomateas G.A. and Simitses G.J., "Bucking of Long Sandwich Cylindrical Shells Under External Pressure", Journal of Applied Mechanics (ASME), vol. 72, no. 4, pp. 493-499, July 2005.