

George A. Kardomateas
Professor
School of Aerospace Engineering
Georgia Institute of Technology

EDUCATIONAL BACKGROUND:

Ph.D.	1985	Mass. Institute of Technology	Mechanical Engineering
M.Sc.	1982	Mass. Institute of Technology	Mechanical Engineering
B.Sc.	1981	National Technical University of Athens, Greece	Mechanical Engineering

EMPLOYMENT HISTORY:

Professor	Georgia Institute of Technology	1997-Present
Associate Professor	Georgia Institute of Technology	1992-1997
Assistant Professor	Georgia Institute of Technology	1989-1992
Senior Research Engineer	General Motors Research Laboratories	1985-1989

CURRENT FIELDS OF INTEREST:

Mechanics of Materials and Structures; Failure Characterization and Damage Tolerance; Composite Structures; Stability; Sandwich Composites; Thermal and Environmental Effects.

SCHOLARSHIP

A. Thesis

Ph.D.

"Mixed Mode I and II Fully Plastic Crack Growth from Simulated Weld Defects,"
September 1985, Advisor: Professor Frank A. McClintock, Massachusetts
Institute of Technology.

M.Sc.

"Dynamics of the Guyed Tower Offshore Platform," June 1981, Advisor:
Professor Michael Triantafyllou, Massachusetts Institute of Technology.

B. Books Authored

1. Carlson R.L. and Kardomateas G.A., An Introduction to Fatigue in Metals and Composites,
Chapman and Hall, London, 1996.
2. Carlsson L. and Kardomateas, G.A. Structural and Failure Mechanics of Sandwich Composites,
Springer, 2011.
3. Carlson R.L., Kardomateas, G.A. and Craig, J.I., Mechanics of Failure Mechanisms in
Structures, Springer, 2012.

C. Books Edited

1. Kardomateas G.A. and Rajapakse Y.D.S. (editors), Failure Mechanics in Advanced Polymeric Composites, ASME (American Society of Mechanical Engineers) AMD-Vol. 196, New York, 1994.
2. Rajapakse Y.D.S. and Kardomateas G.A. (editors), Thick Composites for Load Bearing Structures, ASME (American Society of Mechanical Engineers) AMD-Vol. 235, New York, 1999.
3. Rajapakse Y.D.S., Kardomateas G.A. and Birman V. (editors), Mechanics of Sandwich Structures, ASME (American Society of Mechanical Engineers) AD-vol. 62/AMD-Vol. 245, New York, 2000.
4. Birman V. and Kardomateas, G.A. (editors), Contemporary Research in Engineering Mechanics (papers collected from the Symposium in honor of Prof G.J. Simitses), ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY.
5. Handbook of Damage Mechanics: Nano to Macro Scale for Materials and Structures, Springer, 2014 (Associate Editor) edited the part on "Micromechanics of Damage for Laminated Composites".

D. Published Parts of Books

1. Kardomateas, G.A., "Geometric Nonlinearities in the Postbuckling Behavior of Delaminated Composites," in Interlaminar Fracture in Composites, pp. 269-284, part of the "Key Engineering Material" series, 1989, Trans Tech Publications, Ltd., Switzerland.
2. Kardomateas G.A., "Boundary-Layer Transient Hygroscopic Stresses in Orthotropic Thick Shells", in Non-Classical Problems of the Theory and Behavior of Structures exposed to Complex Environmental Conditions, edited by L. Librescu, AMD-Vol. 164, (American Society of Mechanical Engineers) pp. 17-31, 1993.
3. Kardomateas G.A., "Bifurcation of Equilibrium in Thick Transversely Isotropic Cylindrical Shells Under Axial Compression", in Mechanics of Composite Materials-Nonlinear Effects, edited by M.W. Hyer, AMD-Vol. 159, (American Society of Mechanical Engineers) pp. 113-126, 1993.
4. Kardomateas G.A. and Chung C.B., "Buckling of a Thick Orthotropic Shell Under External Pressure Including Hygroscopic Effects", in Mechanics of Thick Composites, edited by Y.D.S. Rajapakse, AMD-Vol. 162, (American Society of Mechanical Engineers) pp. 213-226, 1993.
5. Kardomateas G.A., "The Initial Postbuckling and Growth Behavior of Internal Delaminations in Composite Plates", in Composite Materials and Structures, edited by C.W. Bert, V. Birman and D. Hui, AMD-Vol. 179 (American Society of Mechanical Engineers) pp. 175-189, 1993.
6. Kardomateas G.A., Carlson R.L. and Ferrie C.H., "A Micromechanical Model for the Fiber Bridging of Macro-Cracks in Composite Plates", in Failure Mechanics in Advanced Polymeric Composites, ASME AMD-vol. 196, (G.A. Kardomateas and Y.D.S. Rajapakse editors), pp. 75-92, 1994.
7. Kardomateas G.A., Pelegri A.A. and Malik B., "Growth of Internal Delaminations Under Cyclic Compression in Composite Plates", in Failure Mechanics in Advanced Polymeric Composites, ASME AMD-vol. 196, (G.A. Kardomateas and Y.D.S. Rajapakse editors), pp. 13-29, 1994.
8. Kardomateas G.A., "Three-Dimensional Elasticity Solution for the Buckling of Moderately Thick Orthotropic Columns", in Contemporary Research in Engineering Science, (edited by R.C. Batra), Springer-Verlag, Berlin, pp. 238-253, 1995.
9. Kardomateas G.A., "Predicting the Growth of Internal Delaminations Under Monotonic or Cyclic Compression" Fracture of Composites, part of the "Key Engineering Material" series, vols. 121-122, 1996, Transtec Publications, Ltd., Switzerland, pp. 441-462.
10. Kardomateas G.A., "Orthotropic Column Buckling: The Euler and Engesser/Timoshenko Formulas versus an Elasticity Solution", in Analysis and Design Issues for Modern Aerospace Vehicles, ASME AD-Vol. 55 (G.J. Simitses editor) pp. 35-48, 1997.

D. Published Parts of Books (Cont.)

11. Kardomateas G.A., "Growth of Face-Sheet Delaminations in Sandwich Beams Under Compression or Bending", in Recent Advances in Mechanics of Aerospace Structures and Materials, ASME AD-Vol. 56 (B.V. Sankar editor) pp. 173-179, 1998.
12. Li R., Frostig Y. and Kardomateas G.A., "Buckling and Postbuckling of Sandwich Beams with Delaminated Faces Based on Higher Order Core Theory", in ASME AD-vol. 58, Advances in Aerospace Materials and Structures, edited by G. Newaz, pp. 1-9, 1999.
13. Huang H., Kardomateas G.A. and La Saponara V., "Mixed Mode Interface Cracks in a Bi-Material Half Plane and a Bi-Material Strip", in ASME AMD-vol. 235, Thick Composites for Load Bearing Structures, edited by Y.D.S. Rajapakse and G.A. Kardomateas, pp. 21-32, 1999.
14. La Saponara V., Huang H. and Kardomateas G.A., "Crack Branching Off an Interface Between Anisotropic Thin Strips", in ASME MD-vol. 86/AMD-vol. 232, Durability and Damage Tolerance of Composite Materials and Structures-1999, edited by A. Pelegri, W.S. Chan, A. Haque and M.V. Hosur, pp. 115-123, 1999.
15. Kardomateas G.A., "Postbuckling and Growth Behavior of Face-Sheet Delaminations in Sandwich Composites", in ASME AMD-vol. 235, Thick Composites for Load Bearing Structures, edited by Y.D.S. Rajapakse and G.A. Kardomateas, pp. 51-60, 1999.
16. Kardomateas G.A. and Huang H., "An Asymptotic Solution for the Response of Face-Sheet Delaminations/Debonds Under Compression", in ASME AD-vol. 62/AMD-vol. 245, Mechanics of Sandwich Structures, edited by Y.D.S. Rajapakse, G.A. Kardomateas and V. Birman, pp. 133-142, 2000.
17. Kardomateas G.A., "Elasticity Solutions for a Sandwich Orthotropic Cylindrical Shell Under External/Internal Pressure and Axial Load", in ASME AD-vol. 62/AMD-vol. 245, Mechanics of Sandwich Structures, edited by Y.D.S. Rajapakse, G.A. Kardomateas and V. Birman, pp. 191-200, 2000.
18. Kardomateas G.A., "Global Buckling and Initial Post-buckling Behavior of Sandwich Beams Including Transverse Shear", in ASME AD-vol. 65/AMD-vol. 249, Contemporary Research in Engineering Mechanics (papers collected from the Symposium in honor of Prof G.J. Simitses), ME2001, edited by V. Birman and G.A. Kardomateas, pp. 207-216, 2001.
19. Li R. and Kardomateas, G.A., "On delamination branching of anisotropic bimaterial media" in ASME AD-vol. 66 (A.M. Waas and J. Whitcomb eds) pp. 111-120, 2003.
20. Kardomateas G.A., La Saponara V. and Simitses G.J., "Experimental Observations on the Delamination Behavior in Composite Structures", in Recent Advances in Experimental Mechanics, edited by Emmanuel E. Gdoutos, Kluwer Academic Publishers, Dordrecht/Boston/London, pp. 645-660 2002.
21. Kardomateas G.A. and Simitses G.J., "Buckling of Long Sandwich Cylindrical Shells Under External Pressure" in Recent Advances in Composite Materials, edited by Emmanuel E. Gdoutos and Z. Marioli-Riga, Kluwer Academic Publishers, Dordrecht/Boston/London, pp. 291-300, 2003.
22. Li, R. and Kardomateas, G.A., "A Study of Interface Crack Branching in Dissimilar Anisotropic Elastic Bimaterial Solids", in Modern Problems of Deformable Body Mechanics, dedicated to Prof. Perikles Theokaris, 2005.
23. Liu L., Holmes, J.W., Kardomateas G.A. and Birman, V., "Compressive Response of Composites Under Combined Fire and Compression Loading", in Modeling of Naval Composite Structures in Fire, edited by L. Couchman and A.P. Mouritz, published by the Cooperative Research Centre for Advanced Composite Structures, RMIT University, Melbourne, Victoria, Australia, pp. 109-142, 2006.
24. Kardomateas G.A., "Elasticity Solutions for the Buckling of Thick Composite and Sandwich Cylindrical Shells Under External Pressure", in "Major Accomplishments in Composite Materials and Sandwich Structures – An Anthology of ONR Sponsored Research," I.M. Daniel, E.E. Gdoutos and Y.D.S. Rajapakse Editors, pp. 339-363, Springer, 2009.

D. Published Parts of Books (Cont.)

25. Kardomateas G.A. and Geubelle P.H., "Fatigue and Fracture Mechanics in Aerospace Structures", Encyclopedia of Aerospace Engineering, Volume 3: Structural technology, Chapter 3.1.5, John Wiley & Sons, Inc., in press, 2010.
26. Kardomateas G.A., "Structural Integrity and Residual Strength of Composites Exposed to Fire", in Recent Advances in Mechanics (dedicated to the Late Professor P.S. Theocaris), A.N. Kounadis and E.E. Gdoutos, Editors, pp. 207-226, Springer, 2011.

E. Published Journal Papers (refereed)

1. Theocaris, P.S., Kardomateas, G.A., and Andrianopoulos, N.P., "Experimental Study of the T-criterion in Ductile Structures," Engineering Fracture Mechanics, 17, pp. 439-447, 1982.
2. Kardomateas, G.A., McClintock, F.A. and Carter, W.T., "Directional Effects in Asymmetric Fully Plastic Crack Growth", Engineering Fracture Mechanics, 21, pp. 341-351, 1985.
3. Kardomateas, G.A., "A Model for Quasi-steady Asymmetric Fully Plastic Crack Growth," International Journal of Pressure Vessels and Piping, 19, pp. 237-246, 1985.
4. Kardomateas, G.A. and Yannas, I.V., "A Model for the Different Crazeing Behaviour of Amorphous Polymer Glasses," Philosophical Magazine A, vol. 52, No. 1, pp. 39-50, 1985.
5. Kardomateas, G.A., "Fractographic Observations in Asymmetric and Symmetric Fully Plastic Crack Growth," Scripta Metallurgica, 20 pp. 609-614, 1986.
6. Kardomateas, G.A., "Displacement Fields for Mixed Mode Elastic-Plastic Cracks," Engineering Fracture Mechanics, 25, pp. 135-139, 1986.
7. Kardomateas, G.A., "Macro-Mechanical Analysis for Symmetric and Asymmetric Fully Plastic Crack Growth," Journal of Engineering Materials and Technology (ASME), vol. 208, pp. 285-289, Oct. 1986.
8. Kardomateas, G.A., "Fully Plastic Asymmetric Crack Growth near a Single Shear Band," International Journal of Mechanical Sciences, vol. 28, pp. 591-598, 1986.
9. Kardomateas, G.A. and McClintock, F.A., "Tests and Interpretation of Mixed Mode I and II Fully Plastic Fracture from Simulated Weld Defects," International Journal of Fracture, vol. 35, pp. 103-124, 1987.
10. Kardomateas, G.A., "Finite Element Investigation of Plane Strain Asymmetric Fully Plastic Fracture," Computers and Structures, vol. 30, no. 5, pp. 1147-1151, 1988.
11. Kardomateas, G.A. and Schmueser, D.W., "Buckling and Postbuckling of Delaminated Composites Under Compressive Loads Including Transverse Shear Effects," AIAA Journal, vol. 26, No. 3, pp. 337-343, 1988.
12. Kardomateas, G.A., "Effect of an Elastic Foundation on the Buckling and Postbuckling of Delaminated Composites Under Compressive Loads," Journal of Applied Mechanics (ASME), vol. 55, pp. 238-241, 1988.
13. Kardomateas, G.A., "Theory of Elasticity of Filament Wound Anisotropic Ellipsoids with Specialization to Torsion of Orthotropic Bars", Journal of Applied Mechanics (ASME), vol. 55, pp. 837-844, 1988.
14. Kardomateas, G.A., "Large Deformation Effects in the Postbuckling Behavior of Composites with Thin Film Delaminations," AIAA Journal, vol. 27, No. 5, pp. 624-631, 1989.
15. Kardomateas, G.A., "Transient Thermal Stresses in Cylindrically Orthotropic Composite Tubes," Journal of Applied Mechanics (ASME), vol. 56, pp. 411-417, 1989, also Errata, Ibid, vol. 58, p. 909, 1991.
16. Kardomateas, G.A., "End Fixity Effects on the Buckling and Postbuckling of Delaminated Composites," Composites Science and Technology, vol. 34, pp. 113-128, 1989.

E. Published Journal Papers (refereed) (Cont.)

17. Kardomateas, G.A., "Torsion of a Filament Wound Anisotropic Elliptic Cylinder With Variable Moduli of Elasticity," International Journal of Mechanical Sciences, vol. 31, no. 6, pp. 459-469, 1989.
18. Kardomateas, G.A. and McIntock, F.A., "Shear Band Characterization of Mixed Mode I and II Fully Plastic Crack Growth," International Journal of Fracture, vol. 40, pp. 1-12, 1989.
19. Kardomateas, G.A., "Thermoelastic Stresses in a Filament Wound Orthotropic Ellipsoid Due to a Uniform Temperature Change," International Journal of Solids and Structures, vol. 26, no. 5/6, pp. 527-537, 1990.
20. Kardomateas, G.A., Bending of a Cylindrically Orthotropic Curved Beam With Linearly Distributed Elastic Constant," Quarterly Journal of Mechanics and Applied Mathematics, vol. 43, pt. 1, pp. 43-55, 1990.
21. Kardomateas, G.A., "The Initial Phase of Transient Thermal Stresses due to General Boundary Thermal Loads in Orthotropic Hollow Cylinders," Journal of Applied Mechanics, (ASME), vol. 57, pp. 719-724, 1990, also Errata, Ibid, vol. 58, p. 909, 1991.
22. Kardomateas, G.A., "Asymptotic Analysis Considerations on the Initial Postbuckling Behavior of Delaminated Composites," Acta Mechanica, vol 83, pp. 165-175, 1990.
23. Kardomateas, G.A., "Snap Buckling of Delaminated Composites Under Pure Bending", Composites Science and Technology, pp. 63-74, 1990.
24. Kardomateas, G.A. "Postbuckling Characteristics in Delaminated Kevlar/Epoxy Laminates: An Experimental Study", Journal of Composites Technology and Research (ASTM), vol. 12, no. 2, pp. 85-90. 1990.
25. Kardomateas, G.A., "End Force Loading of Generally Anisotropic Curved Beams With Linearly Varying Elastic Constants," International Journal of Solids and Structures, vol. 27, no. 1, pp. 59-71, 1991.
26. Kardomateas, G.A., "Tests on the Ductility of Asymmetric Part- Through Cracks in Plates," Experimental Mechanics, pp. 288- 292, 1991.
27. Carlson R.L., Kardomateas G.A. and Bates P.R., "The Effects of Overloads in Fatigue Crack Growth," International Journal of Fatigue, vol. 13, no. 6, pp. 453-460, 1991.
28. Kardomateas, G.A. and Chung, C.B., "Thin Film Modelling of Delamination Buckling in Pressure Loaded Laminated Cylindrical Shells", AIAA Journal, vol. 30, no. 8, pp. 2119-2123, August 1992, also Errata, Ibid, vol. 30, no. 9, p. 2362, September 1992.
29. Kardomateas, G.A., "Spot Weld Failure from Buckling Induced Stressing of Beams Under Bending and Torsion", Engineering Fracture Mechanics, vol. 42, no. 3, pp. 519-530, June 1992.
30. Kardomateas G.A., "Buckling of Thick Orthotropic Cylindrical Shells Under External Pressure", Journal of Applied Mechanics (ASME), vol.60, pp. 195-202, March 1993.
31. Kardomateas G.A., "Stability Loss in Thick Transversely Isotropic Cylindrical Shells Under Axial Compression", Journal of Applied Mechanics (ASME), vol 60, pp. 506-513, June 1993.
32. Kardomateas G.A., "The Initial Postbuckling and Growth Behavior of Internal Delaminations in Composite Plates," Journal of Applied Mechanics (ASME), vol. 60, no. 4, pp. 903-910, December 1993.
33. Kardomateas G.A. and Chung C.B., "Boundary-Layer Transient Hygroscopic Stresses in Orthotropic Thick Shells Under External Pressure", Journal of Applied Mechanics (ASME), vol. 61, no. 1, pp. 161-168, 1994.
34. Kardomateas G.A., Carlson R.L., Soediono A.H. and Schrage D.P., "Near Tip Stress and Strain Fields for Short Elastic Cracks", International Journal of Fracture, vol. 62, pp. 219-232, 1993.
35. Carlson R.L. and Kardomateas G.A., "Effects of Compressive Load Excursions on Fatigue Crack Growth", International Journal of Fatigue, vol. 16, 1994, pp. 141-146.
36. Kardomateas G.A., "Bifurcation of Equilibrium in Thick Orthotropic Cylindrical Shells Under Axial Compression", Journal of Applied Mechanics (ASME), vol. 62, pp. 43-52, March 1995.

E. Published Journal Papers (refereed) (Cont.)

37. Kardomateas G.A. and Pelegri A.A., "The Stability of Delamination Growth in Compressively Loaded Composite Plates", International Journal of Fracture, vol. 65, pp. 261-176 (1994).
38. Kardomateas G.A. and Chung C.B., "Buckling of Thick Orthotropic Cylindrical Shells Under External Pressure Based on Non-Planar Equilibrium Modes", International Journal of Solids and Structures, vol. 31, no. 16., pp. 2195-2210, 1994.
39. Kardomateas G.A., "On the Fully Plastic Flow past a Growing Asymmetric Crack and its Relation to Machining Mechanics", Mechanics Research Communications, vol. 21, no. 5, pp. 483-492, 1994.
40. Kardomateas G.A. and Carlson R.L. , " An Analysis of the Effects of Compressive Load Excursions on Fatigue Crack Growth in Metallic Materials", Journal of Applied Mechanics (ASME), vol. 62, pp. 240-243, March 1995.
41. Kardomateas G.A. and Carlson R.L., "A Micromechanical Model for the Fiber Bridging of Macro-Cracks in Composite Plates", Journal of Applied Mechanics (ASME), vol. 63, pp. 225-233, 1996.
42. Kardomateas G.A., "Three Dimensional Elasticity Solution for the Buckling of Transversely Isotropic Rods: the Euler Load Revisited", Journal of Applied Mechanics (ASME), vol. 62, pp. 346-355, June 1995.
43. Kardomateas G.A. and Carlson R.L., " An Inelastic Multiple Discrete Asperities Model for the Effects of Compressive Underloads in Fatigue Crack Growth", International Journal of Fracture, vol. 70, pp. 99-115, 1995.
44. Kardomateas G.A. and Philobos M.S., "Buckling of Thick Orthotropic Cylindrical Shells Under Combined External Pressure and Axial Compression", AIAA Journal, vol. 33, no. 10, pp. 1946-1953, 1995.
45. Kardomateas G.A., Pelegri A.A. and Malik B., "Growth of Internal Delaminations UnderCyclic Compression in Composite Plates" , Journal of the Mechanics and Physics of Solids, vol. 43, no. 6, pp. 847-868, 1995.
46. Jung H.Y., Carlson R.L. and Kardomateas G.A., ``Geometry Effect on Crack Closure", International Journal of Fracture, vol. 68, pp. R57-R61, 1994.
47. Kardomateas G.A. and Pelegri A.A., "Growth Behavior of Internal Delaminations in Composite Beam/Plates Under Compression: Effect of the End Conditions", International Journal of Fracture, vol. 75, pp. 49-67, 1996.
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49. Steadman D.L., Carlson R.L. and Kardomateas G.A., "On the Form of Fatigue Crack Growth Formulae", International Journal of Fracture, vol. 73, no. 4, p. R79-81, 1995 (brief note).
50. Kardomateas G.A. and B. Malik B., " Fatigue Delamination Growth Under Cyclic Compression in Glass/Epoxy Composite Beam/Plates", Polymer Composites, vol. 18, no. 2, pp. 169-178, April 1997.
51. Kardomateas G.A. and Dancila D.S., "Buckling of Moderately Thick Orthotropic Columns: Comparison of an Elasticity Solution with the Euler and Engesser/Haringx/Timoshenko Formulas", International Journal of Solids and Structures, vol. 34, No. 3, pp. 341-357, 1997.
52. Sheinman I. and Kardomateas G.A., "Energy Release Rate and Stress Intensity Factors for Delaminated Composite Laminates", International Journal of Solids and Structures, vol. 34, No. 4, pp. 451-459, 1997.
53. Sheinman I., Kardomateas G.A. and Pelegri A., "Delamination growth during pre-and post-buckling phases of delaminated composite laminates", International Journal of Solids and Structures, vol. 35, nos 1-2, pp. 19-31, 1998.

E. Published Journal Papers (refereed) (Cont.)

54. Huang H. and Kardomateas G.A., "Buckling of Composite Beam-Plates with Multiple Central Delaminations", International Journal of Solids and Structures, vol. 35, No. 13, pp. 1355-1362, 1998.
55. Huang H. and Kardomateas G.A., "Post-Buckling Analysis of Multiply Delaminated Composite Plates", Journal of Applied Mechanics (ASME), vol. 64, pp. 842-846, 1997.
56. Kardomateas G.A., "Koiter-based Solution for the Initial Postbuckling Behavior of Moderately Thick Orthotropic and Shear Deformable Cylindrical Shells Under External Pressure", Journal of Applied Mechanics (ASME), vol. 64, pp. 885-896, 1997.
57. Carlson R.L., Steadman D.L., Dancila D.S. and Kardomateas G.A., "Fatigue Growth of Small Corner Cracks in Aluminum 6061-T651", International Journal of Fatigue, vol. 19, Supp. No. 1, pp. S119-S125, 1997.
58. Cho H., Kardomateas G.A. and Valle C.S., "Elastodynamic Solution for the Thermal Shock Stresses in an Orthotropic Thick Cylindrical Shell", Journal of Applied Mechanics (ASME), vol. 65, no. 1, pp. 184-193, 1998.
59. Carlson R.L., Steadman D.L., Dancila D.S. and Kardomateas G.A., "An Experimental Investigation of the Fatigue Growth of Small Corner Cracks in Aluminum 6061-T651", Fatigue and Fracture of Engineering Materials and Structures, vol. 21, pp. 403-409, 1998.
60. Kardomateas G.A. and Carlson R.L., "Predicting the Effects of Load Ratio on the Fatigue Crack Growth Rate and the Fatigue Threshold", Fatigue and Fracture of Engineering Materials and Structures, vol. 21, pp. 411-423, 1998.
61. Pelegri A.A., Kardomateas G.A. and Malik B.U., "The Fatigue Growth of Internal Delaminations Under Compression in Cross Ply Composite Plates", Composite Materials: Fatigue and Fracture (Sixth Volume), ASTM STP 1285, E.A. Armanios Ed., American Society for Testing and Materials, 1997, pp. 143-161.
62. Kim Y.S., Kardomateas G.A. and Zureick A., "Buckling of Thick Orthotropic Cylindrical Shells Under Torsion", Journal of Applied Mechanics (ASME), vol. 66, pp. 41-50, 1999.
63. Ferrie C.H., Sheinman I. and Kardomateas G.A., "The Effect of Transverse Shear on the Postbuckling and Growth Characteristics of Delaminations in Composites", Journal of Engineering Materials and Technology (ASME), vol. 121, pp. 406-412, 1999.
64. Huang H. and Kardomateas G.A., "Single-Edge and Double-Edge Cracks in a Fully Anisotropic Strip", Journal of Engineering Materials and Technology (ASME), vol. 121, pp. 422-429, 1999.
65. Kardomateas G.A., "Effect of Normal Strains in Buckling of Thick Orthotropic Shells", Journal of Aerospace Engineering (ASCE), vol. 13, no. 3, pp. 85-91, 2000.
66. La Saponara, V. and Kardomateas, G.A. "Statistical Considerations in the Analysis of Data from Fatigue Tests on Delaminated Cross-Ply Graphite/Epoxy Composites", Journal of Engineering Materials and Technology (ASME), vol. 122, no. 4, pp. 409-419, 2000.
67. Huang H. and Kardomateas G.A., "Stress Intensity Factors for a Mixed Mode Center Crack in an Anisotropic Strip", International Journal of Fracture, vol. 108, pp. 367-381, 2001.
68. Cho, H. and Kardomateas, G.A., "Thermal Shock Stresses due to Heat Convection at a Bounding Surface in a Thick Orthotropic Cylindrical Shell", International Journal of Solids and Structures, vol. 38, pp. 2769-2788, 2001.
69. Kardomateas G.A. "Elasticity Solutions for a Sandwich Orthotropic Cylindrical Shell Under External Pressure, Internal Pressure and Axial Force", AIAA Journal, Vol. 39, No 4, pp. 713-719, April 2001.
70. Huang H. and Kardomateas, G.A., "Mixed-Mode Stress Intensity Factors for Cracks Located at or Parallel the Interface in Bi-material Half Planes", International Journal of Solids and Structures, vol. 38, pp. 3719-3734, 2001.
71. Carlson R.L., Steadman D.L. and Kardomateas G.A., "An Examination of Small Fatigue Crack Morphology", International Journal of Fracture, Vol. 108, no. 1, pp. 63-72, 2001.

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72. La Saponara, V. and Kardomateas, G.A. "Crack Branching in Layered Composites: An Experimental Study", Composite Structures, Vol. 53, pp. 333-344, 2001.
73. Li, R., Frostig, Y. and Kardomateas, G.A., "Nonlinear High-Order Response of Imperfect Sandwich Beams With Delaminated Faces", AIAA Journal, vol. 39, no. 9, pp. 1782-1787, 2001.
74. Kardomateas, G.A., Simitse, G.J., Shen, L. and Li, R., "Buckling of Sandwich Wide Columns", International Journal of Nonlinear Mechanics, vol. 37, no. 7, pp. 1239-47, 2002 (Special issue on "Nonlinear Stability of Structures").
75. La Saponara, V., Hanifah Muliana, Haj-ali, R. and Kardomateas, G.A, "Experimental and Numerical Analysis of Delamination Growth in Double Cantilever Laminated Beams", Engineering Fracture Mechanics, vol. 69, pp. 687-699, 2002.
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77. Kardomateas G.A. and Huang H., "The Initial Postbuckling Behavior of Face-Sheet Delaminations in Sandwich Composites", Journal of Applied Mechanics (ASME), vol. 70, pp. 191-199, March 2003.
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60. Huang H., Kardomateas G.A. and La Saponara V., "Mixed Mode Interface Cracks in a Bi-Material Half Plane and a Bi-Material Strip", presented at the ME'99, the 1999 International Mechanical Engineering Congress & Exposition, November 14-19, 1999, Nashville, Tennessee, and published in AMD-vol. 235, *Thick Composites for Load Bearing Structures*, edited by Y.D.S. Rajapakse and G.A. Kardomateas, pp. 21-32.
61. La Saponara V., Huang H. and Kardomateas G.A., "Crack Branching Off an Interface Between Anisotropic Thin Strips", presented at the ME'99, the 1999 International Mechanical Engineering Congress & Exposition, November 14-19, 1999, Nashville, Tennessee, and published in MD-vol. 86/AMD-vol. 232, *Durability and Damage Tolerance of Composite Materials and Structures-1999*, edited by A. Pelegri, W.S. Chan, A. Haque and M.V. Hosur, pp. 115-123.
62. Kardomateas G.A., "Postbuckling and Growth Behavior of Face-Sheet Delaminations in Sandwich Composites", presented at the ME'99, the 1999 International Mechanical Engineering Congress & Exposition, November 14-19, 1999, Nashville, Tennessee, and published in AMD-vol. 235, *Thick Composites for Load Bearing Structures*, edited by Y.D.S. Rajapakse and G.A. Kardomateas, pp. 51-60.
63. Kardomateas G.A., "The Effect of Normal Strains in the Buckling of Thick Orthotropic Cylindrical Shells Under External Pressure", presented at the ME'99, the 1999 International Mechanical Engineering Congress & Exposition, November 14-19, 1999, Nashville, Tennessee.
64. Huang H., Kardomateas G.A. and La Saponara V., "Mixed Mode Interface or Parallel to the Interface Cracks in a Bi-Material Half Plane", presented at the SECTAM XX, the Twentieth Southeastern Conference on Theoretical and Applied Mechanics, April 16-18, 2000, Callaway Gardens, Pine Mountain, Georgia.
65. Kardomateas G.A., "The Effect of Normal Strains in the Buckling of Thick Orthotropic Cylindrical Shells Under External Pressure", presented at the SECTAM XX, the Twentieth Southeastern Conference on Theoretical and Applied Mechanics, April 16-18, 2000, Callaway Gardens, Pine Mountain, Georgia.
66. Huang H. and Kardomateas G.A., "Mixed-Mode Stress Intensity Factors for Cracks Located at or Parallel to the Interface in Bi-Material Domains", Proceedings, Fifteenth Technical Conference of the American Society for Composites, Sept 25-27, 2000, College Station, Texas, edited by O.O. Ochoa, T.K. O'Brien, D. Lagoudas and H.J. Sue, pp. 861—877, Technomic Publishing, Lancaster, PA, USA.
67. Kardomateas G.A. and Huang H., "An Asymptotic Solution for the Response of Face-Sheet Delaminations/Debonds Under Compression", presented at the ME'00, the 2000 International Mechanical Engineering Congress & Exposition, November 5-10, 2000, Orlando, Florida and published in ASME AD-vol. 62/AMD-vol. 245, *Mechanics of Sandwich Structures*, edited by Y.D.S. Rajapakse, G.A. Kardomateas and V. Birman, pp. 133-142, 2000.
68. Kardomateas G.A., "Elasticity Solutions for a Sandwich Orthotropic Cylindrical Shell Under External/Internal Pressure and Axial Load", presented at the ME'00, the 2000 International Mechanical Engineering Congress & Exposition, November 5-10, 2000, Orlando, Florida and published in ASME AD-vol. 62/AMD-vol. 245, *Mechanics of Sandwich Structures*, edited by Y.D.S. Rajapakse, G.A. Kardomateas and V. Birman, pp. 191-200, 2000.
69. Li R., La Saponara V. and Kardomateas G.A., "Nonlinear Behavior of Sandwich Panels with Delaminations inside Face Sheets Based on Refined Higher Order Core Theory", presented at the ME'00, the 2000 International Mechanical Engineering Congress & Exposition, November 5-10, 2000, Orlando, Florida and published in ASME AD-vol. 63, *Proceedings of the ASME Aerospace Division 2000*, edited by J.D. Whitcomb, P. Hajela, A.M. Waas and B.V. Sankar, pp. 93-103, 2000.

H. Conference Presentations, Cont.

70. Kardomateas G.A. and Simitzes G.J., "Buckling of Sandwich Wide Columns", 42th AIAA/ASME/ASCE/AHS/ASC SDM Conference, April 16-19, 2001, Seattle, WA, paper no. AIAA-2001-1393.
71. Kardomateas, G.A., "Global Buckling and Initial Post-buckling Behavior of Sandwich Beams Including Transverse Shear", ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY.
72. Kardomateas, G.A., "Three-Dimensional Elasticity Solution for the Buckling of Sandwich Columns", ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY.
73. Kardomateas, G.A., "Comparative Studies on the Buckling of Sandwich and Homogeneous Composite Structures", IMECE 02, the 2002 International Mechanical Engineering Congress & Exposition, November 17-22, 2002, New Orleans, Louisiana.
74. Kardomateas, G.A. and Simitzes G.J., "Three-Dimensional Elasticity Solutions for the Buckling of Sandwich Structures", IMECE 02, the 2002 International Mechanical Engineering Congress & Exposition, November 17-22, 2002, New Orleans, Louisiana.
75. Li R. and Kardomateas, G.A., "Prediction of Branching from Debonds in Sandwich Composites", ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY.
76. Li, R. and Kardomateas, G.A., 2001. On Delamination Branching of Anisotropic Bimaterials. Proceedings of 2001 ASME International Mechanical Engineering Congress & Exposition, Nov. 11-16, 2001, New York, NY, AD-Vol. 66, (edited by A.M. Waas and J.D. Whitcomb), pp. 111-120, 2001.
77. Kardomateas, G.A., "Buckling of Sandwich Shells", ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY.
78. La Saponara V. and Kardomateas, G.A., "Tests on the Compressive Behavior of Debonds in Sandwich Beams", ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY.
79. Kardomateas G.A. and Simitzes G.J., "Buckling of Long Sandwich Cylindrical Shells Under Pressure", 14th US National Congress of Theoretical and Applied Mechanics, June 23-28, 2002, Blacksburg, VA.
80. Kardomateas G.A., La Saponara V. and Simitzes G.J., "Experimental Observations on the Delamination Behavior in Composite Structures", 14th US National Congress of Theoretical and Applied Mechanics, June 23-28, 2002, Blacksburg, VA.
81. Kardomateas G.A. and Simitzes G.J., "Buckling of Long Sandwich Cylindrical Shells Under Pressure", The Sixth International Conference on Computational Structures Technology, 4-6 September, 2002, Prague, Czech Republic, Proceedings edited by B.H.V. Topping and Z. Bittnar.
82. Kardomateas, G.A., "Wrinkling of Wide Sandwich Panels/Beams by an Elasticity Approach", Proceedings, 6th International Conference on Sandwich Structures, March 31 to April 2, 2003, Ft. Lauderdale, Florida, edited by Jack R. Vinson, Yapa D.S. Rajapakse and Leif A. Carlsson, CRC Press, pp. 142-153.
83. Li, Renfu and Kardomateas, G.A., "Thermoelastic Crack Branching in General Anisotropic Media (I)", Proceedings of the 5th International Congress on Thermal Stresses and Related Topics, TS2003, 8-11 June 2003, Blacksburg, VA, pp. WM-2-2-1 to WM-2-2-4, edited by L.Librescu and P. Marzocca.
84. Li, Renfu and Kardomateas, G.A., "Thermoelastic Crack Branching in General Anisotropic Media (II)", Proceedings of the 5th International Congress on Thermal Stresses and Related Topics, TS2003, 8-11 June 2003, Blacksburg, VA, pp. WM-2-2-5 to WM-2-2-8, edited by L.Librescu and P. Marzocca.
85. Kardomateas, G.A. "Wrinkling and Global Buckling of Wide Sandwich Panels/Beams with Orthotropic Phases by a Three-Dimensional Elasticity Approach", presented at the 2003 ASME International Mechanical Engineering Congress, November 15-21, 2003, Washington, DC.

H. Conference Presentations, Cont.

86. Kardomateas, G.A., Simitzes, G.J. and Birman V., "Thermo-Elastoviscoplastic Postbuckling Analysis of Structures", presented at the 2003 ASME International Mechanical Engineering Congress, November 15-21, 2003, Washington, DC.
87. Kardomateas, G.A. and Li R., "Thermoelastic Crack Branching in General Anisotropic Media", presented at the 2003 ASME International Mechanical Engineering Congress, November 15-21, 2003, Washington, DC.
88. Holmes, J.W. and Kardomateas, G.A., "Fatigue of Metallic Thermal Protection Systems", presented at the 2003 ASME International Mechanical Engineering Congress, November 15-21, 2003, Washington, DC.
89. Liu L., Kardomateas, G.A. and Holmes J.W., "A Dislocation Approach for the Thermal Stress Intensity Factors of a Crack in an Infinite Anisotropic Medium Under Uniform Heat Flow", presented at the SAMPE 2004, May 16-20, 2004, Long Beach, CA (Session on Fire Performance IV: Structural Modeling).
90. Liu L., Holmes J.W. and Kardomateas G.A., "An Apparatus for Shear Strength and Fully Y-Reversed Shear Fatigue of Composite and Sandwich Materials", ASC/ASTM-D30 Joint 19th Annual Technical Conference, October 17-20, 2004, Atlanta, GA.
91. Carlson R., Cappelli M. and Kardomateas G.A., "Scatter in Small Fatigue Crack Growth", presented at the International Heli Trade Conference, 5-7 October 2004, Geneva, Switzerland.
92. Li R. and Kardomateas G.A., "Thermoelastic Interface Delamination Branching Behavior in Dissimilar Anisotropic Bimaterials", ASC/ASTM-D30 Joint 19th Annual Technical Conference, October 17-20, 2004, Atlanta, GA.
93. Li R. and Kardomateas G.A., "Mode III Interface Crack Behavior in Magneto-Electro-Elastic Dissimilar Bimaterial Media", ASC/ASTM-D30 Joint 19th Annual Technical Conference, October 17-20, 2004, Atlanta, GA.
94. Liu L., Holmes J.W. and Kardomateas G.A., "Tensile and Shear Fatigue of Metallic Thermal Protection Systems", 2004 ASME International Mechanical Engineering Congress, November 13-19, 2004, Anaheim, CA.
95. Kardomateas G.A., "Thermal Buckling of a Fire-Exposed Axially Restrained Composite Column/Plate", 2004 ASME International Mechanical Engineering Congress, November 13-19, 2004, Anaheim, CA.
96. Birman V., Kardomateas G.A. and Simitzes G.J., "Behavior of Composite Laminates and Sandwich Panels Subject to Compression and Fire", 46th AIAA/ASME/ASCE/AHS/ASC SDM (Structures, Structural Dynamics and Materials) Conference, April 18-21, 2005, Austin, TX.
97. Kardomateas, G.A., "Global Buckling of Wide Sandwich Panels With Orthotropic Phases: An Elasticity Solution", *Sandwich Structures 7: Advancing with Sandwich Structures and Materials*, Proceedings of the 7th International Conference on Sandwich Structures, Aalborg University, Aalborg, Denmark, 29-31 August 2005, edited by O.T. Thomsen, E. Bozhevolnaya and A. Lyckegaard, published by Springer, pp. 57-66.
98. Liu L., Holmes J.W., Kardomateas G.A. and Birman V., "Compressive Response of Composites Under Combined Fire and Compression Loading", CIF-4, Fourth International Conference on Composites In Fire, 15-16 September 2005, University of Newcastle Upon Tyne, England, U.K.
99. Birman V., Kardomateas G.A., Simitzes G.J. and Li R., "Effect of Heat Flux on Stresses and Deformations in Compressed Sandwich Composite Panels", IMECE-05, ASME International Mechanical Engineering Congress and Exhibition, November 5-11, 2005, Orlando, FL.
100. Kardomateas G.A. and Li R., "Buckling of multi-walled carbon nanotubes subjected to thermal and mechanical loading by nonlocal elasticity", IMECE-05, ASME International Mechanical Engineering Congress and Exhibition, November 5-11, 2005, Orlando, FL.

H. Conference Presentations, Cont.

101. Liu L., Holmes J.W., Kardomateas G.A., Li R. and Birman V., "Experimental and Analytical Studies on the Structural and Failure Response of Composites under Combined Applied Compression and Heat Flux due to Fire", IMECE-05, ASME International Mechanical Engineering Congress and Exhibition, November 5-11, 2005, Orlando, FL.
102. Cappelli M.D., Carlson R.L. and Kardomateas, G.A., "On Scatter in Fatigue Crack Growth", 9th Joint FAA/DoD/NASA Conference on Aging Aircraft, March 6-9, 2006, Atlanta, GA.
103. Li R. and Kardomateas G.A., "Thermal Buckling of Multi-walled Carbon Nanotubes by Nonlocal Elasticity", IMECE-06, ASME International Mechanical Engineering Congress and Exhibition, November 5-10, 2006, Chicago, IL.
104. Cappelli M., Carlson R. and Kardomateas G.A., "Non-Deterministic Methods for the Evolution of Small Fatigue Crack Clusters", 48th AIAA/ASME/ASCE/AHS/ASC SDM (Structures, Structural Dynamics and Materials) Conference, April 23-26, 2007, Honolulu, Hawaii, paper AIAA-2007-2380.
105. Kardomateas, G.A., Birman V. and Simitzes G.J., "Composites-In-Fire: Structural Integrity and Residual Strength", COMP07, the 6th International Symposium on Advanced Composites, May 16-18, 2007, Corfu, Greece.
106. Li R. and Kardomateas, G.A., "Vibration Characteristics of Multi-Walled Carbon Nanotubes Embedded in Elastic Media by a Nonlocal Elastic Shell Model", IMECE-07, ASME International Mechanical Engineering Congress and Exhibition, November 11-15, 2007, Seattle, WA.
107. Li R., Kardomateas, G.A. and Simitzes, G.J. "Nonlinear Response to Blast Loading of Shallow Composite Sandwich Shells with Compressible Cores", IMECE-07, ASME International Mechanical Engineering Congress and Exhibition, November 11-15, 2007, Seattle, WA.
108. Kardomateas, G.A. and Simitzes, G.J. "Buckling Strength of Composites Subjected to Fire", IMECE-07, ASME International Mechanical Engineering Congress and Exhibition, November 11-15, 2007, Seattle, WA.
109. Li R., Kardomateas, G.A. and Simitzes, G.J. "Blast Nonlinear Response of Composite Sandwich Plates with Compressible Cores", ICSS8, the 8th International Conference on Sandwich Structures, May 6-8, 2008, Porto, Portugal.
110. Cappelli M., Carlson, R.L. and Kardomateas, G.A. "The Evolution of Multisite Small Cracks under Fatigue Loading", IMECE-08, ASME International Mechanical Engineering Congress and Exposition, October 31-November 6, 2008, Boston, MA.
111. Kardomateas, G.A. and Li R., "Three-Dimensional Elasticity Solution for Sandwich Plates with Orthotropic Phases and Comparison with the High-Order Librescu Theory", IMECE-08, ASME International Mechanical Engineering Congress and Exposition, October 31-November 6, 2008, Boston, MA.
112. Li R. and Kardomateas, G.A., "Characteristics of Interface Cracks in Piezoelectric/Piezomagnetic Elastic Anisotropic Bimaterial Composites", IMECE-08, ASME International Mechanical Engineering Congress and Exposition, October 31-November 6, 2008, Boston, MA.
113. Li R., Kardomateas, G.A. and Simitzes, G.J., "Blast Dynamic Response of Composite Sandwich Plates under Uniformly Distributed and Point-Wise Loading", IMECE-08, ASME International Mechanical Engineering Congress and Exposition, October 31-November 6, 2008, Boston, MA.
114. Li, R. and Kardomateas, G.A., "Characteristics of Thermal Fracture in Composite Structures", TS2009, 8th International Congress on Thermal Stresses, 2009, June 1- 4, Urbana-Champagne, IL, June 1-4, 2009.
115. Kardomateas, G.A., "Structural Integrity and Residual Strength of Composites Exposed to Fire", Symposium on Recent Advances in Mechanics, Dedicated to P.S. Theocaris, Athens, Greece, Sept 17-19, 2009, (edited by A.N. Kounadis and E.E. Gdoutos), pp. 67-68.
116. Kardomateas, G.A., "A Comparative Study of Sandwich Buckling Formulas", IMECE-09, ASME International Mechanical Engineering Congress and Exposition, November 13-19, 2009, Lake Buena Vista, FL.

H. Conference Presentations, Cont.

117. Phan C. and Kardomateas, G.A., "One Dimensional High Order Theories for Sandwich Structures", IMECE-09, ASME International Mechanical Engineering Congress and Exposition, November 13-19, 2009, Lake Buena Vista, FL.
118. Kardomateas, G.A., "Elasticity Solutions for the Buckling of Thick Sandwich Cylindrical Shells under External Pressure", IMECE-09, ASME International Mechanical Engineering Congress and Exposition, November 13-19, 2009, Lake Buena Vista, FL.
119. Kardomateas, G.A., Berggreen, C and Carlsson L.A., "Energy Release Rate and Mode-Mixity for a General Asymmetric Debonded Sandwich Specimen", ICSS-9 (Ninth International Conference on Sandwich Structures), June 14-16, 2010, Caltech, Pasadena, CA, USA.
120. Kardomateas, G.A., "Elasticity Solutions for the Buckling of Sandwich Orthotropic Wide Panels/Beams and Cylindrical Shells", ICSS-9 (Ninth International Conference on Sandwich Structures), June 14-16, 2010, Caltech, Pasadena, CA, USA (Keynote).
121. Phan, C., Kardomateas, G.A. and Frostig, Y., "A New High Order Theory for Asymmetric Sandwich Wide Panels/Beams Applicable to a Wide Range of Cores with Applications to Buckling", IMECE-10, ASME International Mechanical Engineering Congress and Exposition, November 12-18, 2010, Vancouver, British Columbia, Canada.
122. Phan, C., Kardomateas, G.A. and Frostig, Y., "Dynamic Analysis of Sandwich Composite Beams/Wide Panels Using Higher-Order Theories", IMECE-11, ASME International Mechanical Engineering Congress and Exposition, November 11-17, 2011, Denver, Colorado, USA.
123. Phan, C., Kardomateas, G.A. and Frostig, Y., "Buckling of Sandwich Beams using the Extended High Order Sandwich Panel Theory and Comparison with Elasticity", ICCM-18, 18th International Conference on Composite Materials, August 21-26, 2011, Jeju Island, Korea.
124. Kardomateas, G.A., Frostig, Y. and Phan, C., "Transient Blast Response of Sandwich Beams/Wide Plates based on Dynamic Elasticity", ICSS-10, 10th International Conference on Sandwich Structures, August 27-29, 2012, Nantes, France.
125. Kardomateas, G.A., Berggreen C. and Carlsson L.A., "Closed form Expressions for the Energy Release Rate and Mode Mixity of a Face/Core Debond", ICSS-10, 10th International Conference on Sandwich Structures, August 27-29, 2012, Nantes, France.
126. Phan, C.N., Frostig, Y. and Kardomateas, G.A., "Free Vibration of Sandwich Panels – Elasticity versus High-Order and Classical Computational Models", Society of Engineering Science 49th Annual Technical Meeting, October 10-12, 2012, Atlanta, GA, USA.
127. Phan, C.N., Kardomateas, G.A., Bailey N. and Battley M., "Wrinkling of Sandwich Wide Panels/Beams based on High Order Sandwich Panel Theories and Comparison with Elasticity and Experiments", ASME 2012 International Mechanical Engineering Congress & Exposition, Nov. 9-15, 2012, Houston, Texas, USA.
128. Phan, C.N., Kardomateas, G.A. and Frostig Y., "The Dynamic Extended High-Order Sandwich Panel Theory (EHSAPT): Blast Response of a Sandwich Beam/Wide Plate and Comparison with Elasticity", ASME 2012 International Mechanical Engineering Congress & Exposition, Nov. 9-15, 2012, Houston, Texas, USA.
129. Kardomateas, G.A., "Static and Dynamic Response of Sandwich Composite Panels: A new High Order Theory and Comparison with Elasticity", 10th HSTAM International Congress on Mechanics, May 25-27, 2013, Chania, Crete, Greece (Plenary Lecture).
130. Berggreen, C., Kardomateas, G.A. and Carlsson, L.A., "Pure Moment Approach to Determine Mixed-Mode Fracture Toughness of Sandwich Face/Core Interfaces", ICCM19, 19th International Conference on Composite Materials, July 28-Aug 2, 2013, Montreal, Canada.
131. Kardomateas, G.A., Rodcheuy N. and Frostig Y., "Transient Blast Response of Sandwich Plates via Dynamic Elasticity", ASME 2013 International Mechanical Engineering Congress & Exposition, Nov. 15-21, 2013, San Diego, CA, USA.
132. Frostig Y. and Kardomateas, G.A., "High-Order Buckling of Annular Sandwich Plates", ASME 2013 International Mechanical Engineering Congress & Exposition, Nov. 15-21, 2013, San Diego, CA, USA.

H. Conference Presentations, Cont.

133. Yuan, Z., Frostig, Y. and Kardomateas, G.A., "Geometric Nonlinearity Effects in the Static and Dynamic Response of Sandwich Beams/Wide Plates", ASME 2014 International Mechanical Engineering Congress & Exposition, Nov. 14-20, 2014, Montreal, Canada.
134. Kardomateas, G.A., Berggreen, C. and Carlsson, L., "Mode Mixity and Energy Release Rate of Face/Core Debonds in Sandwich Beams", ASME 2014 International Mechanical Engineering Congress & Exposition, Nov. 14-20, 2014, Montreal, Canada.
135. Kardomateas, G.A., Frostig, Y. and Rodcheuy, N., "Extended High Order Theory for Sandwich Panels and Comparison with Elasticity", ICCM 20, 20th International Conference on Composite Materials, 19-24 July 2015, Copenhagen, Denmark.
136. Yuan, Z., Kardomateas, G.A and Frostig, Y., "Nonlinear Behavior of Sandwich Panels based on the Extended High Order Sandwich Panel Theory", ASME 2015 International Mechanical Engineering Congress & Exposition, Nov. 13-19, 2015, Houston, TX, USA.
137. Rodcheuy, N., Frostig, Y. and Kardomateas, G.A and, "Curved Sandwich Panel formulation of the Extended High Order Sandwich Panel Theory and Comparison with Elasticity", ASME 2015 International Mechanical Engineering Congress & Exposition, Nov. 13-19, 2015, Houston, TX, USA.
138. Kardomateas, G.A., Yuan, Z., and Frostig, Y., "Geometrically High Order Nonlinear Analysis of Flat and Curved Sandwich Panels", ICSS-11, 11th International Conference on Sandwich Structures, March 20-22, 2016, Florida Atlantic University, Ft. Lauderdale, FL, USA.
139. Kardomateas, G.A., "Buckling and Wrinkling of Sandwich Composite Plates and Shells", 11th HSTAM International Congress on Mechanics, Athens, Greece, May 27-30, 2016 (keynote).

TEACHING

A. Courses Taught

Undergraduate

1. *Introduction to the Mechanics of Solids*, AE 2102
2. *Fundamentals of Stress Analysis*, AE 3105
3. *Structural Analysis by Virtual Work*, AE 3106
4. *Aerospace Structures Lab*, AE 3111
5. *Analysis of Thin-Walled Structural Elements*, AE 4103
6. *Structural Integrity and Durability*, AE 4770

Graduate

1. *Advanced Structural Analysis I*, AE 6100
2. *Advanced Structural Analysis II*, AE 6101
3. *Fracture and Fatigue of Metals and Composites*, AE/ME/MSE/CHE 7775
3. *Energy Methods in Elasticity and Plasticity*, AE/ME 6770

B. Curriculum Development

1. AE 4770, Structural Integrity and Durability
Course was re-activated in 1990 after being long inactive, course content was revised and class notes were prepared and distributed (in lieu of textbook); course revision/reactivation was performed in consultation with Prof McClintock of MIT.

B. Curriculum Development, Cont.

2. AE/CE/ME/MSE 7755, Fracture and Fatigue of Metallic and Composite Structures. This new cross-listed graduate level class was recently developed after being taught for three quarters as a special topics class.

C. Ph.D. Students Graduated

1. **Andy Soediono**
Graduated February 1993
Thesis: *Near Tip Stress and Strain Fields for Short Elastic Cracks.*
2. **Changbum Chung**
Graduated in December 1993
Thesis: *Compressive Response of Thick Composite Shells: Benchmark Solutions for Loss of Stability and Hygroscopic Effects.*
3. **Mahera S. Philobos**
Graduated in July 1994
Thesis: *Benchmark Elasticity Solution for the Buckling of Thick Composite Cylindrical Shells Under Axial Compression and Combined External Pressure and Axial Compression.*
4. **Basharat Malik**
Graduated in August 1995
Thesis: *Growth of Delaminations Under Cyclic Compression in Unidirectional Composite Plates.*
5. **David L. Steadman**
Graduated in May 1997
Thesis: *Growth-Arrest Behavior of Small Fatigue Cracks.*
6. **Hwankee Cho**
Graduated in May 1997
Thesis: *Elastodynamic Thermal Shock Stresses in Orthotropic Thick Cylindrical Shells.*

C. Ph.D. Students Graduated, Cont.

7. **Assimina A. Pelegri**
Graduated in September 1997
Thesis: *Delamination Growth Behavior in Cross-Ply Composites Under Compressive Cyclic (Fatigue) Loading.*
8. **John O. Choi**
Graduated in September 1997
Thesis: *Dynamic Stress Intensity Factors in Orthotropic Materials.*
9. **Catherine H. Ferrie**
Graduated in September 1997
Thesis: *Shear Deformation Effects on the Postbuckling and Growth Characteristics of Delaminated Composites*
10. **Huang Haiying**
Graduated in September 1998
Thesis: *Compressive Behavior of Multiply Delaminated Composite Plates*
11. **Yonsoo Kim**
(co-advised with **Prof. A. Zureick** of CEE)
Graduated in September 1998
Thesis: *Torsional Buckling of Thick Orthotropic Shells*
12. **Valeria La Saponara**
Graduated in August 2001
Thesis: *Crack Branching in Cross-Ply Composites*
13. **Renfu Li**
Graduated in December 2004
Thesis: *Interface Crack Branching in Dissimilar Anisotropic Materials Including thermal Effects*
14. **Marcus D. Cappelli**
Graduated in April 2007
Thesis: *The Evolution of Multi-Site Small Cracks Under Fatigue Loading*
15. **Catherine N. Phan**
Graduated in December 2011
Thesis: *The Extended High-Order Sandwich Panel Theory*
16. **Faisal Siddiqui**
Graduated in July 2015
Thesis: *Extended High-Order Theory for Sandwich Plates of Arbitrary Aspect Ratio*

D. Visiting Scholars Supervised

1. **Izhak Sheinman**, Professor, Faculty of Civil Engineering, Technion Israel Inst of Technology, Sept 1995 to June 1996.
2. **Hwankee Cho**, Professor, Air Force Academy, Seoul, Korea, Sept 2003 to June 2004.
3. **Izhak Sheinman**, Professor, Faculty of Civil Engineering, Technion Israel Inst of Technology, June 2005 to Sept 2005
4. **Yeoshua Frostig**, Professor, Faculty of Civil Engineering, Technion Israel Inst of Technology, September 2011 to November 2011.
5. **Yeoshua Frostig**, Professor, Faculty of Civil Engineering, Technion Israel Inst of Technology, September 2012 to November 2012.
6. **Yeoshua Frostig**, Professor, Faculty of Civil Engineering, Technion Israel Inst of Technology, August 2014 to November 2014.
7. **Yeoshua Frostig**, Professor, Faculty of Civil Engineering, Technion Israel Inst of Technology, July 2015 to February 2016.

SERVICE

A. Professional Society Activities

1. Fellow, American Society of Mechanical Engineers, ASME, 1988-present.
2. Associate Fellow (since 1994), American Institute of Aeronautics and Astronautics, AIAA (Member 1985-94)
3. Member, American Society for Testing and Materials, ASTM, 1985-present.
4. Member, American Society for Engineering Education, ASEE, 1988-present.
5. Selected to the AIAA Technical Committee on Structures, since 1993-1995.
6. AIAA Faculty Advisor, 1991-1993.
7. Associate Editor, AIAA Journal, 1995-1998.
8. Member of the Structures and Materials Committee of the Aerospace Division of the ASME, 1996-present
9. Vice-Chairman (elected), Composites Committee of the Applied Mechanics Division, ASME (American Society of Mechanical Engineers), 1998-2000
10. Chairman (elected), Composites Committee of the Applied Mechanics Division, ASME (American Society of Mechanical Engineers), 2000-present
11. Program Representative for the ASME Aerospace Division Committee on Structures and Materials, 2002-present.
12. Elected Member of the Stability Committee of the Engineering Mechanics Division of the ASCE.
13. Associate Editor, ASME Journal of Applied Mechanics, since 2012.

B. On-Campus Committees

1. Member, AE Undergraduate Curriculum Sub-Committee on Structures, 1989-present.
2. AE Structures Group Search Committee co-coordinator, 11/89-present
3. Committe on Graduate Mechanics Program, 12/91-2/92.
4. College of Engineering Strategic Planning Committee, 1/92-5/92.

B. On-Campus Committees, Cont.

5. AE Faculty Honors Committee, 92-present
6. Chair, AE Structural Mechanics & Material Behavior Discipline Committee, 9/92 - 2001
7. AE Advisory Committee, elected 91-94.
8. NSF Presidential Faculty Fellows Review Panel, 9/93
9. Materials Council 1/1995-present.
10. AE Graduate Committee 1/1996-present
11. AE Academic Advisory Council (since 11/96)
12. Honors Program Committee, since 9/00
13. AE Representative to the General Faculty Assembly (elected) since 2001
14. AE Seminar Coordinator since 2001
15. College of Engineering Reappointment, Promotion and Tenure Committee
16. AE Reappointment, Promotion and Tenure Committee since 2015
17. Chair, AE Periodic Peer Review Committee, 2015, 2016.

C. Reviewer and Editorial Work for Technical Journals and Evaluation Committees

Reviewer for

1. *ASTM STP* (Special Technical Publications), 1985-present.
2. *National Research Council* proposals, 1985-present.
3. *AIAA Journal*, 1989-present
4. *Journal of Engineering Mechanics* (ASCE), 1989-present.
5. *International Journal of Solids and Structures*, 1989-present.
6. *National Science Foundation (NSF)* proposals, 1989-present.
7. *Journal of Applied Mechanics* (ASME) 1991-present
8. *Journal of Composites Engineering*, 1991-present
9. *Journal of Computational Mechanics*, 1991-present
10. *International Journal of Fracture*, 1991-present
11. *Journal of Composites Technology and Research* (ASTM), 1992-present
12. *Journal of Electronic Packaging* (ASME), 1994-present
13. *International Journal of Non-Linear Mechanics*, 2000-present
14. *Journal of Aerospace Engineering* (ASCE) 1992-present
15. *Acta Mechanica*, 1993-present
16. *Journal of Vibration and Acoustics* (ASME), 1993-present
17. *Mechanics of Composite Materials and Structures*, 1/1995-present
18. *International Journal of Engineering Science*, 5/1996-present
19. *Journal of Sandwich Structures and Materials*, 2003-present

Associate Editor for the AIAA Journal, 1995-1998.

Contributing Editor, International Journal of Nonlinear Mechanics, 2001-2004.

Guest Editor, International Journal of Solids and Structures, Special Issue in Honor of Professor Liviu Librescu, 2009.

Guest Editor, Journal of the Mechanics of Materials and Structures, 2008-2009

C. Reviewer and Editorial Work for Technical Journals and Evaluation Committees.
Cont.

Editorial Board Member, Journal of Sandwich Structures and Materials, since 2009.

Associate Editor, Journal of Applied Mechanics (ASME), since 2012.

Associate Editor, Handbook of Damage Mechanics: Nano to Macro Scale for Materials and Structure, Springer, 2014.

External Evaluation Committee, School of Mechanical Engineering, National Technical University of Athens (EMII), May 2012.

External Evaluation Committee, School of Mechanical Engineering, Aristotle University of Thessaloniki, December 2013.

D. Conference Session Chair or Vice-Chair

1. Fifteen Southeastern Conference on Theoretical and Applied Mechanics (Sectam XV), Atlanta, GA, March 1990, Session: Mechanics of Composites.
2. Joint US-Taiwan Symposium on Advanced Manufacturing Processes, Atlanta, GA, February 1993, Session: Forming Processes.
3. MEET'N'93, First Joint Meeting of ASME ASCE, SES, University of Virginia, Charlottesville, Virginia, June 6-9, 1993, Session: Mechanics of Composite Materials: Nonlinear Structural Mechanics II.
4. Ninth International Conference on Composite Materials (ICCM/9), Madrid, Spain, 12-16 July, 1993, Session: Buckling (1), (also organized this session).
5. 1993 ASME Winter Annual Meeting, New Orleans, Louisiana, Nov 28-Dec3, 1993, Session: Buckling of Composite Plates and Shells.
6. 1993 ASME Winter Annual Meeting, New Orleans, Louisiana, Nov 28-Dec3, 1993, Session: Solid Mechanics-II.
7. AIAA/ASME/ASCE/AHS/ASC 35th Structures, Structural Dynamics and Materials (SDM) Conference, April 18-20, 1994, Hilton Head, South Carolina, Session: Material Properties and Behavior.
8. ICCE/1 (International Conference on Composites Engineering), Aug 28-31, 1994, New Orleans, LA, Session: Thick Composites I.
9. 1994 International Mechanical Engineering Congress and Exposition, (ASME Winter Annual Meeting), Chicago, Illinois, November 6-11, 1994, Session: Compressive Behavior.
10. AIAA/ASME/ASCE/AHS/ASC 36th Structures, Structural Dynamics and Materials (SDM) Conference, April 10-13, 1995, New Orleans, LA, Session: Probabilistic Approaches IV: Fatigue/damage.
11. SES'95 (Society of Engineering Science 32nd Annual Technical Meeting), Oct 29-Nov 2, 1995, New Orleans, LA, Session: Composites: Compressive Behavior (also organized this session).
12. SES'95 (Society of Engineering Science 32nd Annual Technical Meeting), Oct 29-Nov 2, 1995, New Orleans, LA, Session: Composites: Failure Mechanics (also organized this session).

D. Conference Session Chair or Vice-Chair, Cont.

13. 1996 ASME Mechanics & Materials Conference, June 12-14, 1996, The Johns Hopkins University, Baltimore, Maryland, session on Instability in Solids & Structures & Materials II.
14. American Society for Composites Eleventh Technical Conference on Composite Materials, October 7-9, 1996, Atlanta, GA, Session on Compressive Behavior.
15. McNU '97, the 1997 Joint ASME, ASCE and SES Summer Meeting, June 29-July 2, 1997, Northwestern University, Evanston, Illinois, Session on Mechanics of Composites.
16. Thirteenth U.S. National Congress of Applied Mechanics, June 21-26, 1998, Gainesville, Florida, Session on "Nonlinear Mechanics of Composites".
17. Thirteenth U.S. National Congress of Applied Mechanics, June 21-26, 1998, Gainesville, Florida, Session on "Structural Mechanics".
18. AHS National Specialists Meeting on Affordable Composite Structures (American Helicopter Society), October 7 & 8, 1998, Bridgeport, Connecticut, Session on "Integrated Product Development".
19. ME'98, the 1998 International Mechanical Engineering Congress and Exposition, November 15-20, 1998, Anaheim, California, Session on "Stability in Solids and Structures-III".
20. ME'98, the 1998 International Mechanical Engineering Congress and Exposition, November 15-20, 1998, Anaheim, California, Session on "Micromechanical Failure in Composites-II".
21. ME'98, the 1998 International Mechanical Engineering Congress and Exposition, November 15-20, 1998, Anaheim, California, Session on "Damage Mechanics in Laminated Composite Materials".
22. ME'99, the 1999 International Mechanical Engineering Congress and Exposition, November 14-19, 1999, Nashville, Tennessee, Session on "Composite Shells".
23. ME'99, the 1999 International Mechanical Engineering Congress and Exposition, November 14-19, 1999, Nashville, Tennessee, Session on "Thick Composites for Load Bearing Structures-II".
24. ME'99, the 1999 International Mechanical Engineering Congress and Exposition, November 14-19, 1999, Nashville, Tennessee, Session on "Lightweight Sandwich Structures-II".
25. ME'99, the 1999 International Mechanical Engineering Congress and Exposition, November 14-19, 1999, Nashville, Tennessee, Session on "Durability and Damage Tolerance of Composite Materials and Structures".
26. ME'00, the 2000 International Mechanical Engineering Congress and Exposition, November 5-10, 2000, Orlando, Florida, Session on "Mechanics of Sandwich Structures-V".
27. ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY, Session AM-5C (Symposium in honor of Prof Simitses).
28. ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY, Session AERO-10 (Symposium on Damage Initiation/Prediction in Composites).
29. ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY, Session AM-7A (Symposium on Three Dimensional Effects in Composite and Sandwich Structures).
30. 14th US National Congress of Theoretical and Applied Mechanics, June 23-28, 2002, Blacksburg, VA, Session on Instability in Solids and Structures II.
31. 14th US National Congress of Theoretical and Applied Mechanics, June 23-28, 2002, Blacksburg, VA, Session on Composite Structures (Symposium on Recent Advances in Experimental Mechanics in honor of I.M. Daniel).

D. Conference Session Chair or Vice-Chair, Cont.

32. IMECE 02, the 2002 International Mechanical Engineering Congress & Exposition, November 17-22, 2002, New Orleans, Louisiana, Session on the “Mechanics of Composite-Faced Sandwich Structures-III”.
33. IMECE 02, the 2002 International Mechanical Engineering Congress & Exposition, November 17-22, 2002, New Orleans, Louisiana, Session on “Instabilities in Solids and Structures”.
34. 6th International Conference on Sandwich Structures, March 31 to April 2, 2003, Ft. Lauderdale, Florida, Session “Mechanics 5”.
35. 2003 ASME International Mechanical Engineering Congress, November 15-21, 2003, Washington, DC, Session AERO-19 on “General Topics in Structures and Materials”.
36. SECTAM XXII, August 15-17, 2004, Tuskegee University, Tuskegee, AL, Session MC-1 on “Sandwich Construction”.
37. ASC/ASTM-D30 Joint 19th Annual Technical Conference, October 17-20, 2004, Atlanta, GA, Session on “Sandwich Composites/Textile Composites”.
38. IMECE-06, the 2006 ASME International Mechanical Engineering Congress, November 5-10, 2006, Chicago, IL, Session AMD-6B on “Nanoarchitected Composite Materials-II”.
39. IMECE-07, ASME International Mechanical Engineering Congress and Exhibition, November 11-15, 2007, Seattle, WA, Session 10-7-2: “Recent Developments in the Mechanics of Layered Sandwich Structures”.
40. IMECE-07, ASME International Mechanical Engineering Congress and Exhibition, November 11-15, 2007, Seattle, WA, Session 10-12-2: “Instabilities in Solids, Structures and Materials 2”.
41. IMECE-07, ASME International Mechanical Engineering Congress and Exhibition, November 11-15, 2007, Seattle, WA, Session 12-3-2: “Novel Approaches in Heterogeneous Material Analyses Characterization-II”.
42. ICSS8, the 8th International Conference on Sandwich Structures, May 6-8, 2008, Porto, Portugal, ONR Session III.
43. IMECE-08, ASME International Mechanical Engineering Congress and Exhibition, October 31-November 6, 2008, Boston, MA, Session 1-2-5: “Fatigue and Structural Integrity”.
44. IMECE-08, ASME International Mechanical Engineering Congress and Exhibition, October 31-November 6, 2008, Boston, MA, Session 12-27-2: “Recent Advances in the Mechanics of Layered Sandwich Structures-II”.
45. IMECE-08, ASME International Mechanical Engineering Congress and Exhibition, October 31-November 6, 2008, Boston, MA, Session 1-3-1: “Symposium in the Honor and Memory of Professor Liviu Librescu-I”.
46. IMECE-09, ASME International Mechanical Engineering Congress and Exhibition, November 12-19, 2009, Lake Buena Vista, FL, Session 1-6-1: “Symposium In Honor of Professor Izhak Sheinman” (with Y. Frostig).
47. IMECE-09, ASME International Mechanical Engineering Congress and Exhibition, November 12-19, 2009, Lake Buena Vista, FL, Session 1-5-2: “Symposium On Recent Advances in the Mechanics of Lightweight Sandwich Structures”.
48. ICSS-9 (Ninth International Conference on Sandwich Structures), June 14-16, 2010, Caltech, Pasadena, CA, USA, Plenary Session-III.
49. ICSS-9 (Ninth International Conference on Sandwich Structures), June 14-16, 2010, Caltech, Pasadena, CA, USA, Session WA1 on “Instabilities (Buckling)”.
50. IMECE-10, ASME International Mechanical Engineering Congress and Exhibition, November 12-18, 2010, Vancouver, Canada, Session on “Lightweight Sandwich Structures-I”.
51. IMECE-11, ASME International Mechanical Engineering Congress and Exhibition, November 11-17, 2011, Denver, CO, Session on “Sandwich Structures, Stability and Identification-I”.

D. Conference Session Chair or Vice-Chair, Cont.

52. IMECE-12, ASME 2012 International Mechanical Engineering Congress & Exposition, Nov. 9-15, 2012, Houston, Texas, USA, Session on on “Lightweight Sandwich Composites and Layered Structures With Environmental Effects-I”.
53. ICCM 20, 20th International Conference on Composite Materials, 19-24 July 2015, Copenhagen, Denmark, Session on “Extreme Loading of Composite Materials in Naval Applications”.
54. ICCM 20, 20th International Conference on Composite Materials, 19-24 July 2015, Copenhagen, Denmark, Session “ONR Special Symposium on Marine Composites 1”.
55. ASME 2014 International Mechanical Engineering Congress and Exhibition (IMECE-14), Nov. 14-20, 2014, Montreal, Canada, Session 1-8-1, “Lightweight Sandwich Composites and Layered Structures”.
56. ASME 2015 International Mechanical Engineering Congress and Exhibition (IMECE-15), Nov. 13-19, 2015, Houston, TX, USA., Session 1-9-2, “Lightweight Sandwich Composites and Layered Structures II”.
57. ICSS-11, 11th International Conference on Sandwich Structures, March 20-22, 2016, Florida Atlantic University, Ft. Lauderdale, FL, USA, Session :ONR Blast”.

E. Symposium/Session Organizer/Conference Organizing Committee

1. Symposium on Failure Mechanics in Advanced Polymeric Composites, 1994 International Mechanical Engineering Congress and Exposition, (ASME Winter Annual Meeting), Chicago, Illinois, November 6-11, 1994, Organized the Symposium together with Dr. Y.D.S. Rajapakse of ONR.
2. Symposium on Micromechanical Failure in Composites, ME'98, the 1998 International Mechanical Engineering Congress and Exposition, November 15-20, 1998, Anaheim, California, Organized the Symposium together with Prof. A. M. Waas of the U. of Michigan.
3. Symposium on Thick Composites for Load Bearing Structures, ME'99, the 1999 ASME International Mechanical Engineering Congress and Exposition, November 14-19, 1999, Nashville, Tennessee, Organized the Symposium together with Dr. Y.D.S. Rajapakse of ONR.
4. Symposium on Composite Shells, ME'99, the 1999 ASME International Mechanical Engineering Congress and Exposition, November 14-19, 1999, Nashville, Tennessee, Symposium Organizer.
5. Symposium on Mechanics of Sandwich Structures, ME'00, the 2000 International Mechanical Engineering Congress and Exposition, November 5-10, 2000, Orlando, Florida, Organized the Symposium together with Dr. Y.D.S. Rajapakse of ONR and V. Birman of U. of Missouri.
6. Symposium in honor of Prof G.J. Simitzes, ME2001, the 2001 International Mechanical Engineering Congress & Exposition, November 11-16, 2001, New York, NY, Organized the symposium together with V. Birman of U. of Missouri.
7. 2003 ASME International Mechanical Engineering Congress, November 15-21, 2003, Washington, DC, Session AERO-19 on “General Topics in Structures and Materials”, Session Organizer.

E. Symposium/Session Organizer/Conference Organizing Committee, Cont.

8. SECTAM XXII, August 15-17, 2004, Tuskegee University, Tuskegee, AL, member of the Executive Committee and the Scientific Advisory Committee.
9. Sixth International Conference on Sandwich Structures, Ft. Lauderdale, FL, April 2, 2003, Member of the Organizing Committee.
10. Seventh International Conference on Sandwich Structures, Aalborg, Denmark, August 2005, Member of the Organizing Committee.
11. 2004 ASME International Mechanical Engineering Congress, November 13-19, 2004, Anaheim, CA, Session AERO-12B on "Topics in Aerospace Structural Analysis", Session Organizer.
12. 2004 ASME International Mechanical Engineering Congress, November 13-19, 2004, Anaheim, CA, Session AERO-12C on "Nano-Structures/Advanced Structural Concepts", Session Organizer.
13. IMECE-07, ASME International Mechanical Engineering Congress and Exhibition, November 11-15, 2007, Seattle, WA, organized Symposium on "Recent Developments in the Mechanics of Layered Sandwich Structures" (with L. Carlsson).
14. IMECE-08, ASME International Mechanical Engineering Congress and Exhibition, October 31-November 6, 2008, Boston, MA, organized Symposium on "Recent Developments in the Mechanics of Layered Sandwich Structures" (with L. Carlsson and Y. Frostig).
15. IMECE-08, ASME International Mechanical Engineering Congress and Exhibition, October 31-November 6, 2008, Boston, MA, organized Symposium on "Fatigue and Structural Integrity".
16. IMECE-08, ASME International Mechanical Engineering Congress and Exhibition, October 31-November 6, 2008, Boston, MA, organized Symposium "In the Honor and Memory of Professor Liviu Librescu" (with U. Yuceoglu).
17. Eighth International Conference on Sandwich Structures, May 6-8, 2008, Porto, Portugal, Member of the Organizing Committee.
18. Ninth International Conference on Sandwich Structures, Pasadena, CA, June 2010, Member of the Organizing Committee.
19. IMECE-09, ASME International Mechanical Engineering Congress and Exhibition, November 12-19, 2009, Lake Buena Vista, FL, organized Symposium "On Recent Advances in the Mechanics of Lightweight Sandwich Structures" (with L. Carlsson).
20. IMECE-09, ASME International Mechanical Engineering Congress and Exhibition, November 12-19, 2009, Lake Buena Vista, FL, organized Symposium "In Honor of Professor Izhak Sheinman" (with Y. Frostig).
21. IMECE-10, ASME International Mechanical Engineering Congress and Exhibition, November 12-18, 2010, Vancouver, Canada, organized Symposium on "Lightweight Sandwich Structures" (with Y. Frostig).

E. Symposium/Session Organizer/Conference Organizing Committee, Cont.

22. IMECE-11, ASME International Mechanical Engineering Congress and Exhibition, November 11-17, 2011, Denver, Colorado, organized Symposium on “Sandwich Structures, Stability and Identification (Symposium in Memory of Prof. M. Baruch)” (with Y. Frostig).
23. 2012 SES Annual Technical Meeting, October 10-12, 2012, Track Chair, Track VI: Mechanics of Structures.
24. ASME 2012 International Mechanical Engineering Congress and Exhibition (IMECE-12), Nov 9-15, 2012, Houston Texas, organized Symposium on “Lightweight Sandwich Composites and Layered Structures With Environmental Effects” (with Y. Frostig).
25. ASME 2012 International Mechanical Engineering Congress and Exhibition (IMECE-12), Nov 9-15, 2012, Houston Texas, Technical Vice-Chair (upcoming).
26. ASME 2013 International Mechanical Engineering Congress and Exhibition (IMECE-13), Technical Vice-Chair (upcoming).
27. ASME 2013 International Mechanical Engineering Congress and Exhibition (IMECE-13), Nov 15-21, 2013, San Diego, CA, organized Symposium on “Lightweight Sandwich Composites and Layered Structures” (with Y. Frostig).
28. ASME 2014 International Mechanical Engineering Congress and Exhibition (IMECE-14), Technical Chair
29. ASME 2015 International Mechanical Engineering Congress and Exhibition (IMECE-14), General Chair
30. ASME 2014 International Mechanical Engineering Congress and Exhibition (IMECE-14), Nov. 14-20, 2014, Montreal, Canada, organized Symposium on “Lightweight Sandwich Composites and Layered Structures” (with Y. Frostig).
31. ASME 2015 International Mechanical Engineering Congress and Exhibition (IMECE-15), Nov. 13-19, 2015, Houston, TX, USA., organized Symposium on “Lightweight Sandwich Composites and Layered Structures” (with Y. Frostig).

Professional Honors and Awards

Hellenic Society of Chartered Engineers Award (1980)

Bodosakis Foundation Fellowship (1981)

AIAA Certificate of Appreciation (1992)

Selected to the National AIAA Technical Committee on Structures (1993)

AIAA Outstanding Faculty Advisor Citation (1993)

Professional Honors and Awards, Cont.

Associate Fellow, AIAA (1994)

Associate Editor, AIAA Journal (1995-1998)

Contributing Editor, International Journal of Non-Linear Mechanics, since 2001

Fellow, ASME (since 1998)

Chairman (elected), Composites Committee of the Applied Mechanics Division, ASME, 2000 –2002

Topical Organizer, Structures and Materials Committee of the Aerospace Division of the ASME, 2002-2004.

Elected Member of the Stability Committee of the Engineering Mechanics Division of the ASCE., 2007.

Member of the International Scientific Committee of the International Conferences on Sandwich Structures.

Guest Editor, International Journal of Solids and Structures, since 2008

Guest Editor, Journal of the Mechanics of Materials and Structures, since 2008

Member of the Editorial Board, Journal of Sandwich Structures and Materials, since 2009.

Associate Editor, Handbook of Macro to Nano Damage Mechanics to be published by Springer, 2012.

Keynote Lecture, ICSS-9, (Ninth International Conference on Sandwich Structures), June 14-16, 2010, Caltech, Pasadena, CA, USA. Lecture Title: "Elasticity Solutions for the Buckling of Sandwich Orthotropic Wide Panels/Beams and Cylindrical Shells.

Certificate of Appreciation for Distinguished Service to the Sandwich Structures Community, awarded at the ICSS-9 (Ninth International Conference on Sandwich Structures), June 14-16, 2010, Caltech, Pasadena, CA, USA.

"Thanks for being a Great Teacher" Certificate, Center for the Enhancement of Teaching and Learning, Georgia Inst of Technology, April 2011.

"Thanks for being a Great Teacher" Certificate, Center for the Enhancement of Teaching and Learning, Georgia Inst of Technology, April 2012.

Associate Editor, Journal of Applied Mechanics (ASME), since 2012.

Technical Vice-Chair, ASME 2012 International Mechanical Engineering Congress and Exhibition (IMECE-12).

Technical Vice-Chair, ASME 2013 International Mechanical Engineering Congress and Exhibition (IMECE-13), November 15-21, 2013, San Diego, CA.

Professional Honors and Awards, Cont.

Technical Chair, ASME 2014 International Mechanical Engineering Congress and Exhibition (IMECE-14), November 14-20, 2014, Montreal, Canada.

Plenary Lecture, 10th HSTAM (Hellenic Society for Theoretical and Applied Mechanics) International Congress on Mechanics, May 25-27, 2013, Chania, Crete, Greece, Lecture Title: "Static and Dynamic Response of Sandwich Composite Panels: A new High Order Theory and Comparison with Elasticity".

Associate Editor, Handbook of Damage Mechanics: Nano to Macro Scale for Materials and Structures, Springer, 2014, edited the part on "Micromechanics of Damage for Laminated Composites".

General Conference Chair, ASME 2015 International Mechanical Engineering Congress and Exhibition (IMECE-15), Nov. 13-19, 2015, Houston, TX, USA

Vice-Chair, Congress Steering Committee, , ASME 2016 International Mechanical Engineering Congress and Exhibition (IMECE-16), Nov. 11-17, 2016, Phoenix, AZ, USA

Plenary Lecture, 11th HSTAM (Hellenic Society for Theoretical and Applied Mechanics) International Congress on Mechanics, Athens, Greece, May 27-30, 2016, Lecture Title: "Buckling and Wrinkling of Sandwich Composite Plates and Shells".