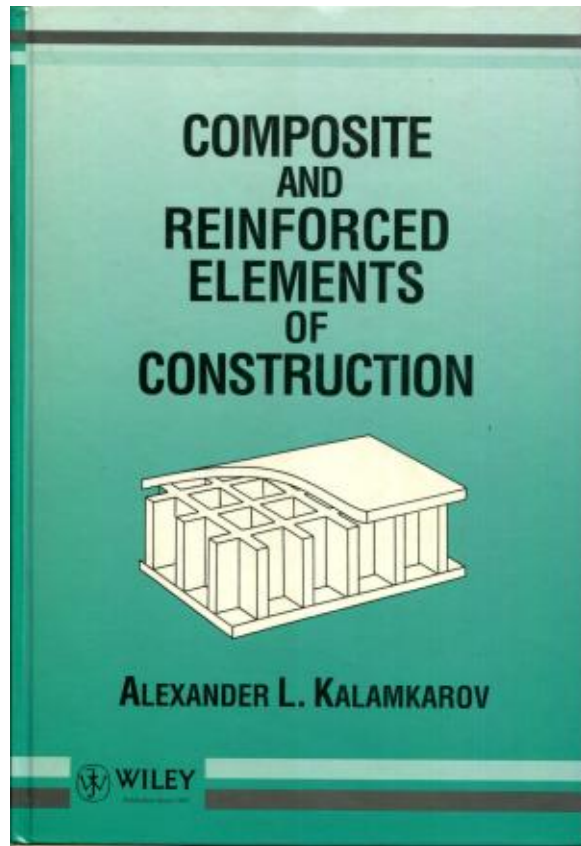




**Professor Alexander L. Kalamkarov**



A.L. Kalamkarov, Composite and Reinforced Elements of Constructions, John Wiley & Sons, Chichester, UK, 1992

See:

<https://www.dal.ca/faculty/engineering/mechanical/faculty-staff/our-faculty/professors/alex-kalamkarov.html>

<http://poisson.me.dal.ca/site2/department/faculty/kalamkarov.html>

[https://www.researchgate.net/profile/Alex\\_Kalamkarov](https://www.researchgate.net/profile/Alex_Kalamkarov)

<https://rheology.conferenceseries.com/ocm/2016/alexander-l-kalamkarov-dalhousie-university-canada>

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### **Biography:**

Dr. Alex Kalamkarov is a Professor of Mechanical Engineering at the Dalhousie University in Halifax (Nova Scotia, Canada) since 1993, and Director of Smart Materials Centre since 1995. He was awarded the PhD degree from the Moscow Lomonosov State University in 1979 and the Doctor of Sciences (Habilitation) degree from the Academy of Sciences of the USSR in 1990. His academic career spans over 36 years in Research and University teaching. Prior to joining Dalhousie University he worked at the Moscow State University, Ecole Centrale Paris (France), University of Toronto (Canada). He has been a Visiting Professor (during sabbatical leaves) at the Université Pierre et Marie Curie (Université Paris-6) and Ecole Centrale Paris in France; University of Tokyo (Japan); University of Hawaii (USA); Moscow State University (Russia); University of Wollongong (Australia); University of Natal (South Africa); University of Manchester (England); Humboldt University of Berlin (Germany); Universidade Federal do Rio de Janeiro (Brazil). Research performed by Prof.

Kalamkarov in Mechanics of Solids, specifically in the areas of advanced composite materials and smart materials and structures is internationally recognized. He has made major contribution to the fundamental analysis, design and optimization of composite materials and smart structures. Dr. Kalamkarov made significant contribution to the design, fabrication and experimental evaluation of smart fibre-reinforced composite structures.. Dr. Kalamkarov has authored more than 300 research publications, including 135 refereed journal papers, 5 Research Monographs and 2 US patents. His research results have been reported at the numerous International Conferences and Seminars. Dr. Kalamkarov is a member of numerous Editorial and Advisory boards in the area of composite materials and smart structures. He has served as a Vice-President of the Canadian Society for Mechanical Engineering (CSME). In June 2011 Dr. Kalamkarov was awarded the CANCAM Gold Medal for the outstanding contribution in the area of Applied Mechanics. He is Fellow of the American Society of Mechanical Engineers (ASME), a Fellow of the Canadian Society for Mechanical Engineering (CSME), and a Fellow of the Japan Society for Promotion of Science (JSPS).

### **Selected Publications:**

#### **Books:**

A. L. Kalamkarov, Composite and Reinforced Elements of Constructions, John Wiley & Sons, Chichester, UK, 1992.

A.L. Kalamkarov and A.G. Kolpakov, Analysis, Design and Optimization of Composite Structures, 2<sup>nd</sup> edition, John Wiley & Sons, Chichester, UK, 1997.

#### **Journal Articles:**

Kalamkarov A, Kolpakov A (2001) A new asymptotic model for a composite piezoelastic plate. *Int J Solids Struct* 38:6027–6044

Evakin AYu, Kalamkarov A., Analysis of large deflection equilibrium state of composite shells of revolution—Part 1. General model and singular perturbation analysis. *Int J Solid Struct* 2001; 38: 8961–8974

A. L. Kalamkarov, G. Duvaut and F. Lene, “A New Asymptotic Model of Flexible Composite Shells of a Regular Structure,” *International Journal of Engineering Science*, Vol. 40, No. 2002, pp. 333-343

Kalamkarov AL, Georgiades AV, Rokkam SK, Veedu VP, Ghasemi-Nejhad MN (2006) Analytical and numerical techniques to predict carbon nanotubes properties. *Int J Solids Struct* 43(22):6832–6854

K. S. Challagulla, A. V. Georgiades, G. C. Saha and A. L. Kalamkarov, “Micromechanical Analysis of Grid-Reinforced Thin Composite Generally Orthotropic Shells,” *Composites Part B: Engineering*, Vol. 39, No. 4, 2008, pp. 627-644

G. C. Saha and A. L. Kalamkarov, “Micromechanical Thermoelastic Model for Sandwich Composite Shells Made of Generally Orthotropic Materials,” *Journal of Sandwich Structures and Materials*, Vol. 11, No. 1, 2009, pp. 27-56

A.L. Kalamkarov, I.V. Andrianov, and V.V. Danishevs'kyi. Asymptotic homogenization of composite materials and structures. *Applied Mechanics Reviews*, 62(3), 2009. Article Number: 030802.

Igor V. Andrianov, Alexander L. Kalamkarov and Dieter Weichert, “Buckling of fibers in fiber-reinforced composites”, *Composites Part B: Engineering*, Vol. 43, No. 4, pp 2058-2062, June 2012