



**Professor Romesh Chandra Batra** 

#### See:

http://www2.esm.vt.edu/~rbatra/ http://scholar.google.com/citations?user=QpAXXoEAAAAJ&hl=en http://www.barnesandnoble.com/c/r.-c.-batra http://journalogy.net/Author/4254660/romesh-batra

Clifton C. Garvin Professor Department of Engineering Science and Mechanics Virginia Polytechnic Institute and State University, Blacksburg, Virginia

# **Education:**

B.S., Mech'l Eng'g, (Gold Medalist, 1st rank in 3 states), Punjabi Univ., India, 1968. M.A.Sc., Mech'l Eng'g, Univ. of Waterloo, Waterloo, Canada, 1969. Ph.D., The Johns Hopkins University, Baltimore, USA, 1972.

#### **Research Interests:**

Multiscale Analysis of Multiphysics Problems involving material and Geometric Nonlinearities, Nanomechanics, Dynamic Failure under Shock Loads, Smart Structures, Functionally Graded Materials.

## Awards:

2011 Virginia Outstanding Scientist Award 2010 Virginia State Council of Higher Education Outstanding Faculty Award 2010 Lee Hsun Research Award, Institute of Metals Research, Chinese Academy of Sciences 2009 Engineering Science Medal of the Society of Engineering Science 2006 Honorary D.Sc. degree from Thapar University, India

# Journal Editor:

Mathematics & Mechanics of Solids International Journal of Computational Methods

## **Book:**

Elements of Continuum Mechanics, published by AIAA, ISBN: 1563476991, August 2005, 308 pages

#### **Publications:**

Adiabatic Shear Banding (80 publications)

Constitutive Relations (5 recent publications)

Contact/Indentation (11 publications)

Dynamic Buckling (7 publications)

Dynamic Fracture Mechanics (5 recent publications)

Functionally Gradient Materials (34 publications)

Meshless Method (31 publications)

Microelectromechanical systems (MEMS) (11 publications)

Nanoscience/Nanotechnology (9 publication)

Penetration & Impact Problems (5 recent publications)

Plates, Shells, Beams and Rods (83 publications)

Smart Structures/piezoelectricity (48 publications)