



## **Professor Junuthula N. Reddy**

See:

[http://en.wikipedia.org/wiki/J.\\_N.\\_Reddy](http://en.wikipedia.org/wiki/J._N._Reddy)

<https://ceprofs.civil.tamu.edu/jreddy/>

<http://www.worldcat.org/identities/lccn-n82-125648>

<http://www.journalogy.net/Author/12764504/j-n-reddy>

<http://www.amazon.com/J.-N.-Reddy/e/B001HCW46S>

<http://www.barnesandnoble.com/c/junuthula-n.-reddy>

<http://www.facebook.com/pages/J-N-Reddy/115086762699?v=info>

Distinguished Professor

Regents' Professor

Holder of Oscar S. Wyatt Endowed Chair

Department of Mechanical Engineering

Texas A& M University

Website: <http://www.isihighlycited.com/>

Director of the Advanced Computational Mechanics Laboratory

Dr. Reddy is a Distinguished Professor, Regents' Professor and inaugural holder of the Oscar S. Wyatt Endowed Chair in Mechanical Engineering at Texas A&M University, College Station, Texas. Dr. Reddy earned a Ph.D. in Engineering Mechanics in 1974. He worked as a Post-Doctoral Fellow at the University of Texas at Austin,

Research Scientist for Lockheed Missiles and Space Company during 1974-75, and taught at the University of Oklahoma from 1975 to 1980, Virginia Polytechnic Institute & State University from 1980 to 1992, and Texas A&M University from 1992 till now.

Dr. Reddy is the author of nearly 400 journal papers and 16 text books on energy principles, variational methods, plates and shells, composite materials, and the finite element method and its applications to problems in solid and structural mechanics, composite materials, computational fluid dynamics, numerical heat transfer, and applied mathematics, and modeling of biological cells and nanosystems. The books authored by Dr. Reddy include: An Introduction to Continuum Mechanics with Applications, Cambridge University Press, 2008; Theory and Analysis of Elastic Plates and Shells, Taylor & Francis (1999, 2nd ed., 2007); An Introduction to the Finite Element Method, McGraw-Hill (1984, 3rd ed., 2006); An Introduction to Nonlinear Finite Element Analysis, Oxford University Press, 2004; Mechanics of Laminated Composite Plates and Shells: Theory and Analysis, CRC Press (1999, 2nd ed., 2004); Energy Principles and Variational Methods in Applied Mechanics, John Wiley (1984, 2nd ed., 2002); Applied Functional Analysis and Variational Methods in Engineering, McGraw-Hill, 1986.

Dr. Reddy has delivered over 100 plenary, keynote lectures, or general invited lectures at international conferences and institutions, taught numerous short courses on finite elements and composite materials, and advised 20 postdoctoral fellows, 51 Ph.D. students, and 40 M.S. students, to date. He is selected as the Honorary Member, American Society of Mechanical Engineers (ASME), 2011. Dr. Reddy received an honorary degree (Honoris Causa) from the Technical University of Lisbon, Portugal in 2009 and Odlar Yurdu University, Baku, Azerbaijan in 2011.

Dr. Reddy is also a member of the International Association of Computational Mechanics (IACM), former co-editor of its bulletin, a founding member and former president of the U.S. Association of Computational Mechanics (USACM). As a result of his extensive publications of archival journal papers and books in wide range of topics in applied sciences and engineering, Dr. Reddy is one of the selective researchers in engineering around world who is recognized by ISI Highly Cited Researchers with over 10,000 citations with H-index of over 49. A more complete resume with links to journal papers can be found at <http://www.isihighlycited.com/> (This web site lists only highly cited researchers in engineering around the world.)

## EDUCATION

B.E. (5yr Course), Mechanical Engineering, Osmania University, Hyderabad, Andhra Pradesh, India, 1968.  
M.S., Mechanical Engineering, Oklahoma State University, Stillwater, Oklahoma, 1970.  
Ph.D., Engineering Mechanics (Advisor: Dr. J. T. Oden), University of Alabama in Huntsville, Alabama, 1973.  
Post Doctoral Fellow, Texas Institute for Computational Mechanics, University of Texas at Austin, 1973-1974.

## PROFESSIONAL EXPERIENCE

1974-1975: Research Scientist, Lockheed Missiles and Space Company, Huntsville, Alabama.  
1975-1978: Assistant Professor, School of Aerospace, Mechanical, and Nuclear Engineering, University of Oklahoma, Norman.

1978-1980: Associate Professor, School of Aerospace, Mechanical, and Nuclear Engineering, University of Oklahoma, Norman.

1980-1985: Professor, Engineering Science and Mechanics Department, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

1986-1992: Clifton C. Garvin Professor of Engineering Science and Mechanics, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

2006-2007: Head of Engineering Science Programme, National University of Singapore, Singapore (an honorary position to provide intellectual leadership, vision, and policy making).

1992-present: Oscar S. Wyatt, Jr. Chair in Mechanical Engineering; adjunct faculty appointments in Department of Civil Engineering, Department of Aerospace Engineering, and Department of Mathematics, Texas A&M University, College Station, Texas.

1998-present: Distinguished Professor, Texas A&M University, College Station, Texas.

2011-present: Regents' Professor, Texas A&M University, College Station, Texas.

**ASME PRESS RELEASE, “J.N. Reddy Recognized by ASME with Honorary Membership” (November 2011):**

NEW YORK, Nov. 21, 2011 – J.N. Reddy, P.E., Ph.D., a resident of College Station, Texas, and distinguished professor, regents professor and the holder of the Oscar S. Wyatt endowed chair at Texas A&M University, was honored by ASME (American Society of Mechanical Engineers) for distinctive and pioneering contributions to research and education in applied and computational mechanics through the development of refined theories and as the author of well-received books on composite materials, continuum and applied mechanics, and computational methods. He received Honorary Membership in ASME.

First awarded in 1880, the founding year of the Society, Honorary Membership recognizes a lifetime of service to engineering or related fields. The award was conferred on Dr. Reddy during ASME’s 2011 International Mechanical Engineering Congress and Exposition, held in Denver, Nov. 11 through 17.

Prior to joining the faculty at Texas A&M in 1992, Reddy taught at the University of Oklahoma (OU), Norman (1975-80) and Virginia Polytechnic Institute and State University, Blacksburg (1980-92). Earlier, he was a research scientist at Lockheed Missiles and Space Company in Huntsville, Ala. (1974-75) following his postdoctoral fellowship at the Texas Institute for Computational Mechanics at the University of Texas at Austin (1973-74).

Reddy is renowned for his research and educational contributions, particularly in the areas of applied and computational mechanics. His research interests include mathematical formulation and analysis of problems in applied mechanics including solid and structural mechanics, computational fluid mechanics, computational heat transfer, biomechanics, development of mathematical models and computational schemes based on the finite element method of problems in composite materials and structures, plates and shells, fluid dynamics, and nano and biological systems. Shear deformation plate and shell theories bear his name; and his finite element models, in parts, have been implemented into commercial finite element software including ABAQUS, NISA and HYPERFORM, which are accessible to engineers worldwide.

He is the author of more than 450 journal papers and 17 well-received books, many of which have been adopted as textbooks. He is one of only a few researchers in engineering around the world who are recognized as highly-cited researchers by Thomson Reuters (formerly ISI), with over 10,000 citations and h-index of 49. He has delivered over 100 general, keynote and plenary lectures at conferences around the world.

A Fellow of ASME, Reddy was associate editor (1997-2007) of Applied Mechanics Reviews and is now its editor in chief. He is a reviewer for other ASME journals, and an organizer of symposia at the summer and annual meetings. Among his prior activities, he was the faculty advisor of OU's ASME Student Section (1976-79); member (1981-93), vice chair (1993-95) and chair (1995-97) of the Applied Mechanics Division's Committee on Computing in Applied Mechanics; member of the Society's Committee on Composite Materials (1982-92); and associate editor for the Journal of Applied Mechanics (1992-98). He received the Worcester Reed Warner Medal (1992) and the Charles Russ Richards Memorial Award (1995).

Reddy is also a Fellow of the American Institute of Aeronautics and Astronautics; the American Society of Civil Engineers (ASCE), where he served as chair of the Engineering Mechanics Executive Committee; the International Association for Computational Mechanics, where he was founding member of the General Council; the United States Association for Computational Mechanics (USACM), where he served as president; the American Academy of Mechanics, where he was secretary of Fellows; the Aeronautical Society of India; the Institution of Structural Engineers; and the American Society for Composites (ASC). He was a member of the Society of Engineering Science's Board of Governors.

Reddy received his bachelor's degree in mechanical engineering at Osmania University (Hyderabad, India) in 1968. He earned his master's degree in mechanical engineering from Oklahoma State University, Stillwater, in 1970; and his Ph.D. in engineering mechanics (advisor: Dr. J.T. Oden) at the University of Alabama in Huntsville (1973). Reddy holds an honorary degree from the Technical University of Lisbon, Portugal (2009). He is a registered professional engineer in Oklahoma.