

Brief Vitae of J.N. Reddy
<http://mechanics.tamu.edu/>



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, an **ISI highly-cited researcher**, is known for his significant contributions to the field of applied mechanics through the authorship of 24 textbooks and over 800 journal papers. His pioneering works on the development of shear deformation theories (that bear his name in the literature as the *Reddy third-order plate theory* and the *Reddy layerwise theory*) have had a major impact and have led to new research developments and applications. Some of the ideas on shear deformation theories and penalty finite element models of fluid flows have been implemented into commercial finite element computer programs like ABAQUS, NISA, and HyperXtrude. In recent years, Reddy's research has focused on the development of locking-free shell finite elements and nonlocal and non-classical continuum mechanics problems involving couple stresses and damage and fracture in solids.

Dr. Reddy has received numerous honors and awards. Most recent ones include: 2022 *IACM Congress (Gauss-Newton) Medal*, 2019 *SP Timoshenko Medal* from American Society of Mechanical Engineers, 2018 *Theodore von Karman Medal* from the American Society of Civil Engineers, the 2017 *John von Neumann Medal* from the U.S. Association of Computational Mechanics, the 2016 *Prager Medal* from the Society of Engineering Science, and 2016 ASME Medal from American Society of Mechanical Engineers. He is a member US National Academy of Engineering and foreign fellow of the Brazilian National Academy of Engineering, Indian National Academy of Engineering, the Canadian Academy of Engineering, the Chinese Academy of Engineering, the Royal Engineering Academy of Spain, the European Academy of Sciences, and the European Academy of Sciences and Arts.