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SHORT BIO:

Dr. Reddy is a Distinguished Professor, Regents' Professor, and the holder of the *O'Donnell Foundation Chair IV* 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 a large number of textbooks (25) and journal papers (>800). 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 dealing with architected materials and structures and damage and failures in solids.

Dr. Reddy has received numerous honors and awards. Most recent ones include: *2023 Leonardo da Vinci Award* from the European Academy of Sciences, *2023 Michael Païdoussis Medal* from the Royal Society of Canada, *2022 IACM Congress (Gauss-Newton) Medal* from the International Association of Computational Mechanics, the *2019 SP Timoshenko Medal* from American Society of Mechanical Engineers, the *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 eight national academies, including the US National Academy of Engineering, and foreign fellow of Indian National Academy of Engineering, the Canadian Academy of Engineering, the Brazilian National 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.

Brief Vitae of J.N. Reddy

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