

Professor Miles B. Rubin studied mechanical engineering, receiving his B.Sc. from the University of Colorado, Boulder in 1972, his M.Sc. in 1974 and his Ph.D. in 1979, both from the University of California, Berkeley. He worked at SRI International from 1979 until 1982 when he moved to Israel to join the Faculty of Mechanical Engineering at Technion. He was promoted to the rank of full professor in 1995 and he received the Gerard Swope Chair in Mechanics in 2001. His research in continuum mechanics includes: Development of an Eulerian formulation of constitutive equations for finite deformations of elastic-inelastic media which is insensitive to arbitrary choices of a reference configuration, an intermediate configuration, a measure of total deformation and a measure of inelastic deformation; Thermomechanical modelling of metals, shock loaded porous geological media and growth of biological tissue; Development of a robust, strongly objective numerical algorithm to integrate the evolution equation for elastic deformation that causes stress; Cosserat theories of shells, rods and points; Development of Cosserat Point Elements (CPEs) for numerical solutions of nonlinear continuum problems. He has published one book and over 170 journal articles. Also, he has been a Visiting Faculty at Lawrence Livermore National Laboratory for over 30 years.