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Research topics in dynamics, vibration and control of engineering systems

The presentation is to provide an overview of mathematical modeling and significant results for a number of research projects conducted by the speaker over the years on the areas of dynamics, vibrations and control of engineering systems.

Topics include: Wave propagation in an elastic half-space medium, soil dynamics, soil-foundation interaction, vibrations of thick elastic cylindrical structures, control of vibration in thick cylindrical structures using constrained layer damping, nonlinear analysis of lateral vibration of high speed annular disks, in-plane vibrations of high speed annular disks, dynamical response of adhesively bonded beams, flow-induced vibration in pipes, stability of flexible cam-follower systems, vibration of structures made of thin-film membranes, system identifications, inverse dynamic model for lower extremities during gait and determination of crack in structures.

Biography

Hamid R Hamidzadeh received his PhD in Applied Mechanics from Imperial College where he also conducted postdoctoral research for four years. He is the Professor of Mechanical and Manufacturing Engineering Department at Tennessee State University. He is a Fellow of ASME and a Distinguished Member and Fellow of the SDPS. He has published three books and over 200 articles. He serves as Co-editor and Editorial Board Member for five journals. He has organized major conferences and has served the ASME as chair of the Special Divisions Steering Committee, Conference Planning Committee, Executive Committee of Design Division and Vice-chair of the Board on Technical Knowledge Dissemination.

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