

C O N T E N T S

MSC.Patran Reference Manual Part 3: Finite Element Modeling

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and Engineering Applications MMSE 2016 held 28 30 October 2016 in Wuhan China The conference proceeding contributions cover a large number of topics both theoretical and applied including Material science Electrical Engineering and Automation Control Electronic Engineering Applied Mechanics Mechanical Engineering Aerospace Science and Technology Computer Science and Information technology and other related engineering topics MMSE provides a perfect platform for scientists and engineering researchers to exchange ideas build cooperative relationships and discuss the latest scientific achievements MMSE will be of interest for academics and professionals working in a wide range of industrial governmental and academic sectors including Material Science Electrical and Electronic Engineering Information Technology and Telecommunications Civil Engineering Energy Production Manufacturing Mechanical Engineering Nuclear Engineering Transportation and Aerospace Science and Technology Best Practices for Crash Modeling and Simulation

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Stephen A. Rizzi,2001 This report documents two new implementations of equivalent linearization for solving geometrically nonlinear random vibration problems of complicated structures The implementations are given the acronym ELSTEP for Equivalent Linearization using a Stiffness Evaluation Procedure Both implementations of ELSTEP are fundamentally the same in that they use a novel nonlinear stiffness evaluation procedure to numerically compute otherwise inaccessible nonlinear stiffness terms from commercial finite element programs The commercial finite element program MSC NASTRAN NASTRAN was chosen as the core of ELSTEP The FORTRAN implementation calculates the nonlinear stiffness terms and performs the equivalent linearization analysis outside of NASTRAN

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