

# C O N T E N T S

## MSC.Patran Reference Manual Part 3: Finite Element Modeling

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# Msc Patran Element Quick Reference Guide

**MSC Software**

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## **Msc Patran Element Quick Reference Guide:**

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Improved Equivalent Linearization Implementations Using Nonlinear Stiffness Evaluation 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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