

## Nonlinear finite element and its application in aircraft structural design (fine)



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## NONLINEAR FINITE ELEMENT AND ITS APPLICATION IN AIRCRAFT STRUCTURAL DESIGN (FINE)



paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 227 Publisher: Shanghai Jiaotong University Pub. Date :2011-05-01 version 1. Zhuju Fen. Wang Hai. Xu Shengli edited the non-linear finite element and its application in aircraft structural design. focuses on the structure nonlinear problems in mechanics and the basic principles of finite element analysis approach is based on knowledge. Non-linear finite element and its application in aircraft structural design. is divided into eight chapters. systematically expounded material and large deformation elastic-plastic constitutive equations under the condition of the basic Lagrangian description. and gives a materials. geometry. nonlinear finite element formulation and the corresponding design process. The book also details the geometric theory of nonlinear stability analysis of aircraft structural design applications. This book can be used as engineering colleges of science and engineering graduate students. advanced undergraduate textbook. but also for the majority of engineering and technical officers. Contents: 1 Introduction 1.1 Overview 1.1.1 The non-linear finite element finite element method 1.1.2 The emergence and development of non-linear finite element method to solve the classification and review of 1.2 linear finite element constitutive 1.2.2 1.2.1 geometric equations balance equation 1.2.4 1.2.3 finite element method in three basic steps to 1.3 unit displacement isoparametric elements 1.3.1 Interpolation 1.3.2 coordinate transformation based isoparametric elements 1.3.3 isoparametric eight-node axisymmetric elements geometric stiffness matrix B and matrix Ke1.3.4 three nodes isoparametric beam element geometric stiffness matrix B and the nonlinear constitutive material matrix Ke2 - 2.1 one-way plastic constitutive theory and plastic deformation of the tensile test characteristics of the initial yield criterion 2.2 2.2.1 2.2.2 The general form of yield function and the hydrostatic pressure-independent yield criterion 2.2.3 consider the effects of hydrostatic pressure yield criterion 2.3 plastic stress-strain relationship...

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