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Autore	Joerin Jonas
Titolo	Building resilient urban communities / / by Jonas Joerin, Rajib Shaw, Ramasamy R. Krishnamurthy
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ISBN	1-78350-906-6
Edizione	[First edition.]
Descrizione fisica	1 online resource (209 p.)
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Nota di contenuto	Front Cover; Building Resilient Urban Communities; Copyright Page; Contents; Building Resilient Urban Communities; Chapter 1 Introduction; Climate disaster resilient urban communities; Case study locations; About the book; References; Chapter 2 Climate disaster risk in urban areas in Asia; Chapter 3 The concept of resilience to disasters; Chapter 4 Resilience in the context of urban disaster risk reduction in India; Disaster risk reduction and resilience in urban areas of India; Summary Chapter 5 Development and application of a Climate Disaster Resilience Index in Chennai and other Indian citiesClimate disaster resilience index/initiative - Methodology; Key findings from the resilience assessments; Chapter 6 Perceptions of community leaders about enhancing the climate disaster resilience of communities in Chennai, India; Chapter 7 Perceptions of households about enhancing the climate disaster resilience of communities in Chennai, India;

	Community disaster resilience; Chapter 8 Making Chennai resilient to climate-related disasters
Sommario/riassunto	How do urban communities in Asian cities experience the impacts of urbanization and climate change? This book throws light on the ongoing processes of rapid urban transformation in many cities in developing countries, with particular reference to cities such as Chennai in India. Due to increasing demands on infrastructures and urban services, cities in developing countries are often pushed to the edge of collapse even when not in times of disaster. While such cities try to implement measures to safeguard the well-being of their citizens, looming impacts of climate change such as increasingly f

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Autore	Shen Hui-Shen
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Nota di contenuto

A Two-Step Perturbation Method in Nonlinear Analysis of Beams, Plates and Shells; Contents; About the Author; Preface; List of Symbols; 1 Traditional Perturbation Method; 1.1 Introduction; 1.2 Load-type Perturbation Method; 1.3 Deflection-type Perturbation Method; 1.4 Multi-parameter Perturbation Method; 1.5 Limitations of the Traditional Perturbation Method; References; 2 Nonlinear Analysis of Beams; 2.1 Introduction; 2.2 Nonlinear Motion Equations of Euler-Bernoulli Beams; 2.3 Postbuckling Analysis of Euler-Bernoulli Beams; 2.4 Nonlinear Bending Analysis of Euler-Bernoulli Beams
2.5 Large Amplitude Vibration Analysis of Euler-Bernoulli BeamsReferences; 3 Nonlinear Vibration Analysis of Plates; 3.1 Introduction; 3.2 Reddy's Higher Order Shear Deformation Plate Theory; 3.3 Generalized Karman-type Motion Equations; 3.4 Nonlinear Vibration of Functionally Graded Fiber Reinforced Composite Plates; 3.5 Hygrothermal Effects on the Nonlinear Vibration of Shear Deformable Laminated Plate; 3.6 Nonlinear Vibration of Shear Deformable Laminated Plates with PFRC Actuators; References; 4 Nonlinear Bending Analysis of Plates; 4.1 Introduction
4.2 Nonlinear Bending of Rectangular Plates with Free Edges under Transverse and In-plane Loads and Resting on Two-parameter Elastic Foundations4.3 Nonlinear Bending of Rectangular Plates with Free Edges under Transverse and Thermal Loading and Resting on Two-parameter Elastic Foundations; 4.4 Nonlinear Bending of Rectangular Plates with Free Edges Resting on Tensionless Elastic Foundations; 4.5 Nonlinear Bending of Shear Deformable Laminated Plates under Transverse and In-plane Loads; 4.6 Nonlinear Bending of Shear Deformable Laminated Plates under Transverse and Thermal Loading
4.7 Nonlinear Bending of Functionally Graded Fiber Reinforced Composite PlatesAppendix 4.A; Appendix 4.B; Appendix 4.C; Appendix 4.D; Appendix 4.E; Appendix 4.F; References; 5 Postbuckling Analysis of Plates; 5.1 Introduction; 5.2 Postbuckling of Thin Plates Resting on Tensionless Elastic Foundation; 5.3 Postbuckling of Shear Deformable Laminated Plates under Compression and Resting on Tensionless Elastic Foundations; 5.4 Thermal Postbuckling of Shear Deformable Laminated Plates Resting on Tensionless Elastic Foundations
5.5 Thermomechanical Postbuckling of Shear Deformable Laminated Plates Resting on Tensionless Elastic Foundations5.6 Postbuckling of Functionally Graded Fiber Reinforced Composite Plates under Compression; 5.7 Thermal Postbuckling of Functionally Graded Fiber Reinforced Composite Plates; 5.8 Postbuckling of Shear Deformable Hybrid Laminated Plates with PFRC Actuators; References; 6 Nonlinear Vibration Analysis of Cylindrical Shells; 6.1 Introduction; 6.2 Reddy's Higher Order Shear Deformation Shell Theory and Generalized Karman-type Motion Equations
6.3 Nonlinear Vibration of Shear Deformable Cross-ply Laminated Cylindrical Shells

Sommario/riassunto

The capability to predict the nonlinear response of beams, plates and shells when subjected to thermal and mechanical loads is of prime interest to structural analysis. In fact, many structures are subjected to high load levels that may result in nonlinear load-deflection relationships due to large deformations. One of the important problems deserving special attention is the study of their nonlinear response to large deflection, postbuckling and nonlinear vibration. A two-step perturbation method is firstly proposed by Shen and Zhang (1988) for postbuckling analysis of isotropic plat