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Engineering systems have played a crucial role in stimulating many of the modern developments in nonlinear and stochastic dynamics. After 20 years of rapid progress in these areas, this book provides an overview of the

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current state of nonlinear modeling and analysis for mechanical and structural systems. This volume is a coherent compendium written by leading experts from the United States, Canada, Western and Eastern Europe, and Australia. The 22 articles describe the background, recent

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developments, applications, and future directions in bifurcation theory, chaos, perturbation methods, stochastic stability, stochastic flows, random vibrations, reliability, disordered systems, earthquake engineering, and numerics. The book gives readers a sophisticated toolbox that will allow

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them to tackle modeling problems in mechanical systems that use stochastic and nonlinear dynamics ideas. An extensive bibliography and index ensure this volume will remain a reference standard for years to come.

In recent years, bridge engineers and

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researchers are increasingly turning to the finite element method for the design of Steel and Steel-Concrete Composite Bridges. However, the complexity of the method has made the transition slow. Based on twenty years of experience, Finite Element Analysis and Design of Steel and Steel-

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Concrete Composite Bridges provides structural engineers and researchers with detailed modeling techniques for creating robust design models. The book's seven chapters begin with an overview of the various forms of modern steel and steel-concrete composite bridges as well as current

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design codes. This is followed by self-contained chapters concerning: nonlinear material behavior of the bridge components, applied loads and stability of steel and steel-concrete composite bridges, and design of steel and steel-concrete composite bridge components. Constitutive models for

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construction materials including material non-linearity and geometric non-linearity The mechanical approach (including problem setup, strain energy, external energy and potential energy), mathematics behind the method
Commonly available finite elements codes for the design of steel bridges

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Explains how the design information from Finite Element Analysis is incorporated into Building information models to obtain quantity information, cost analysis

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This volume represents most aspects of the rich and growing field of nonlinear control. These proceedings contain 78 papers, including six plenary lectures, striking a balance between theory and applications. Subjects covered include feedback stabilization, nonlinear and adaptive

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control of electromechanical systems, nonholonomic systems. Generalized state space systems, algebraic computing in nonlinear systems theory, decoupling, linearization and model-matching and robust control are also covered.

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Shells are basic structural elements of modern technology and everyday life. Examples are automobile bodies, water and oil tanks, pipelines, aircraft fuselages, nanotubes, graphene sheets or beer cans. Also nature is full of living shells such as leaves of trees, blooming flowers, seashells, cell

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membranes, the double helix of DNA or wings of insects. In the human body arteries, the shell of the eye, the diaphragm, the skin or the pericardium are all shells as well. Shell Structures: Theory and Applications, Volume 3 contains 137 contributions presented at the 10th Conference on Shell

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Structures: Theory and Applications
held October 16-18, 2013 in Gdansk,
Poland. The papers cover a wide
spectrum of scientific and engineering
problems which are divided into seven
broad groups: general lectures,
theoretical modelling, stability,
dynamics, bioshells, numerical

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analyses, and engineering design. The volume will be of interest to researchers and designers dealing with modelling and analyses of shell structures and thin-walled structural elements.

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A thoughtful consideration of the current level of development of multigrid methods, this volume is a carefully edited collection of papers that addresses its topic on several levels. The first three chapters orient the reader who is familiar with

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standard numerical techniques to multigrid methods, first by discussing multigrid in the context of standard techniques, second by detailing the mechanics of use of the method, and third by applying the basic method to some current problems in fluid dynamics. The fourth chapter provides

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a unified development, complete with theory, of algebraic multigrid (AMG), which is a linear equation solver based on multigrid principles. The last chapter is an ambitious development of a very general theory of multigrid methods for variationally posed problems. Included as an appendix is

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the latest edition of the Multigrid Bibliography, an attempted compilation of all existing research publications on multigrid.

This book covers a broad range of topics relating to architecture and urban design, such as the

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conservation of cities – culture and identity through design and planning processes, various ideologies and approaches to achieving more sustainable cities while retaining their identities, and strategies to help cities advertise themselves on the global market. Every city has its own unique

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identity, which is revealed through its physical and visual form. It is seen through the eyes of its inhabitants and visitors, and is where their collective memories are shaped. In turn, these factors affect tourism, education, culture & economic prosperity, in addition to other aspects, making a

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city's identity one of its main assets. Cities' identities are constructed and developed over time and are constantly evolving physically, culturally and sociologically. This book explains how architecture and the arts can embody the historical, cultural and economic characteristics of the city. It

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also demonstrates how cities' memories play a vital role in preserving their physical and nonphysical heritage. Furthermore, it examines the transformation of cities and urban cultures, and investigates the various new approaches developed in contemporary arts and

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architecture. Given its scope, the book is a valuable resource for a variety of readers, including students, educators, researchers and practitioners in the fields of city planning, urban design, architecture and the arts.

The papers in this volume start with a

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description of the construction of reduced models through a review of Proper Orthogonal Decomposition (POD) and reduced basis models, including their mathematical foundations and some challenging applications, then followed by a description of a new generation of

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simulation strategies based on the use of separated representations (space-parameters, space-time, space-time-parameters, space-space,...), which have led to what is known as Proper Generalized Decomposition (PGD) techniques. The models can be enriched by treating parameters as

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additional coordinates, leading to fast and inexpensive online calculations based on richer offline parametric solutions. Separated representations are analyzed in detail in the course, from their mathematical foundations to their most spectacular applications. It is also shown how such an

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approximation could evolve into a new paradigm in computational science, enabling one to circumvent various computational issues in a vast array of applications in engineering science.

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