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This book covers a broad range of topics relating to architecture and urban design, such as the conservation of cities' culture and identity through design and planning processes, various ideologies and approaches to achieving more sustainable cities

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Buildings Inqware Ag while retaining their identities, and strategies to help cities advertise themselves on the global market. Every city has its own unique identity, which is revealed through its physical and visual form. It is seen through the eyes of its inhabitants and

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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 city's identity one of its main assets. Cities' identities are constructed

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Building Hardware Ag 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 also demonstrates how cities'

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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

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and 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.

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Numerical Modeling of Masonry
and Historical Structures: From
Theory to Application provides
detailed information on the
theoretical background and
practical guidelines for numerical
modeling of unreinforced and
reinforced (strengthened)

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masonry and historical structures.
The book consists of four main
sections, covering seismic
vulnerability analysis of masonry
and historical structures,
numerical modeling of
unreinforced masonry, numerical
modeling of FRP-strengthened

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masonry, and numerical modeling of TRM-strengthened masonry.

Each section reflects the theoretical background and current state-of-the art, providing practical guidelines for simulations and the use of input parameters. Covers important

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issues relating to advanced methodologies for the seismic vulnerability assessment of masonry and historical structures
Focuses on modeling techniques used for the nonlinear analysis of unreinforced masonry and strengthened masonry structures

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Buildings Inyware Ag
Follows a theory to practice
approach

Engineering dynamics and
vibrations has become an
essential topic for ensuring

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structural integrity and operational functionality in different engineering areas. However, practical problems regarding dynamics and vibrations are in many cases handled without success despite large expenditures. This book

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Covers a wide range of topics from the basics to advances in dynamics and vibrations; from relevant engineering challenges to the solutions; from engineering failures due to inappropriate accounting of dynamics to mitigation measures and

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utilization of dynamics. It lays emphasis on engineering applications utilizing state-of-the-art information.

The increasing necessity to solve complex problems in Structural Dynamics and Earthquake

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Engineering requires the development of new ideas, innovative methods and numerical tools for providing accurate numerical solutions in affordable computing times. This book presents the latest scientific developments in Computational

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This present book describes the different construction systems and structural materials and elements within the main buildings typologies, and it analyses the particularities of

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each of them, including, at the end, general aspects concerning laboratory and in-situ testing, numerical modeling, vulnerability assessment and construction maintenance.

Reinforced concrete (R/C) is one

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of the main building materials used worldwide, and an understanding of its structural performance under gravity and seismic loads, albeit complex, is crucial for the design of cost effective and safe buildings. Concrete Buildings in Seismic

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Regions comprehensively covers of all the analysis and design issues related to the design of reinforced concrete buildings under seismic action. It is suitable as a reference to the structural engineer dealing with specific problems during the design

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process and also for
undergraduate and graduate
structural, concrete and
earthquake engineering courses.
This revised edition provides new
and significantly developed
coverage of seismic isolation and
passive devices, and coverage of

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recent code modifications as well as notes on future developments of standards. It retains an overview of structural dynamics, the analysis and design of new R/C buildings in seismic regions, post-earthquake damage evaluation, pre-earthquake

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assessment of buildings and retrofiting procedures, and several numerical examples. The book outlines appropriate structural systems for many types of buildings, explores recent developments, and covers the last two decades of analysis,

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design, and earthquake
engineering. It specifically
addresses seismic demand issues
and the basic issues of structural
dynamics, considers the
"capacity" of structural systems
to withstand seismic effects in
terms of strength and

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Buildings In gwalior, and highlights the assessment of existing R/C buildings under seismic action. All of the material has been developed to fit a modern seismic code and offers in-depth knowledge of the background upon which the code rules are

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based. It complies with European Codes of Practice for R/C buildings in seismic regions, and includes references to current American Standards for seismic design.

Following the two damaging

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California earthquakes in 1989 (Loma Prieta) and 1994 (Northridge), many concrete wall and masonry wall buildings were repaired using federal disaster assistance funding. The repairs were based on inconsistent criteria, giving rise to controversy

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Buildings In gware Ag regarding criteria for the repair of cracked concrete and masonry wall buildings. To help resolve this controversy, the Federal Emergency Management Agency (FEMA) initiated a project on evaluation and repair of earthquake damaged concrete

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Buildings In masonry wall buildings in 1996. The ATC-43 project addresses the investigation and evaluation of earthquake damage and discusses policy issues related to the repair and upgrade of earthquake damaged buildings. The project deals with buildings

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Buildings whose primary lateral-force-resisting systems consist of concrete or masonry bearing walls with flexible or rigid diaphragms, or whose vertical-load-bearing systems consist of concrete or steel frames with concrete or masonry infill panels.

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The intended audience is design engineers, building owners, building regulatory officials, and government agencies. The project results are reported in three documents. The FEMA 306 report, Evaluation of Earthquake Damaged Concrete and Masonry

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Wall Buildings, Basic Procedures Manual, provides guidance on evaluating damage and analyzing future performance. Included in the document are component damage classification guides, and test and inspection guides. FEMA 307, Evaluation of Earthquake

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Damaged Concrete and Masonry
Wall Buildings, Technical
Resources, contains supplemental
information including results from
a theoretical analysis of the
effects of prior damage on single-
degree-of-freedom mathematical
models, additional background

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information on the component guides, and an example of the application of the basic procedures. FEMA 308, The Repair of Earthquake Damaged Concrete and Masonry Wall Buildings, discusses the policy issues pertaining to the repair of

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earthquake damaged buildings and illustrates how the procedures developed for the project can be used to provide a technically sound basis for policy decisions. It also provides guidance for the repair of damaged components.

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This book provides senior undergraduate students, master students and structural engineers who do not have a background in the field with core knowledge of

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structural earthquake engineering that will be invaluable in their professional lives. The basics of seismotectonics, including the causes, magnitude, and intensity of earthquakes, are first explained. Then the book introduces basic elements of

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Buildings and Highways And
seismic hazard analysis and presents the concept of a seismic hazard map for use in seismic design. Subsequent chapters cover key aspects of the response analysis of simple systems and building structures to earthquake ground motions, design spectrum,

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the adoption of seismic analysis procedures in seismic design codes, seismic design principles and seismic design of reinforced concrete structures. Helpful worked examples on seismic analysis of linear, nonlinear and base isolated buildings,

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earthquake-resistant design of
frame and frame-shear wall
systems are included, most of
which can be solved using a hand
calculator.

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