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A Complete Guide to Masonry Materials and Structural Design Written by the former chair of the Masonry Standards Joint Committee (MSJC), this authoritative volume covers the design of

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Design of Masonry Codes, Materials, and Structural Design This fully revised resource covers the design of masonry structures using the 2015 International Building Code, the ASCE 7-10 loading standard, and the TMS 402-13 and TMS 602-13 design and construction standards. The book emphasizes the strength design of masonry and includes allowable-stress provisions. The latest advances, materials, and techniques are clearly explained. Chapter-long case studies featuring a low-rise building with reinforced concrete masonry and a four-story building with clay masonry illustrate the

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This valued textbook: Discusses all aspects of design of masonry structures in plain and reinforced masonry. summarizes materials properties and structural principles as well as describing structure and content of codes. Presents design procedures

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featuring monumental buildings, low-rise buildings with unreinforced masonry, and recent RC buildings with clay masonry. Masonry: Design, Materials and Techniques covers the following topics: Materials and techniques used in masonry construction, seismic behavior of URM buildings, monumental buildings, monitoring and assessment, numerical strategies used for masonry buildings, structural behavior and design of low-rise, wall bearing buildings, non-destructive tests in the characterization of masonry walls, vulnerability and

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**Design** sustainability of vernacular construction, and codes and design of RC buildings with infill masonry walls.

During earthquakes, masonry buildings are the most affected, and consequently, damage to these buildings leads to massive loss of life and property. Masonry buildings comprise probably the greatest share of overall housing stock, and in turn, understanding their performance during earthquakes is a pivotal problem in seismic regions. Masonry Construction in Active Seismic Regions presents details on the kinds of masonry building

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**Design** in seismic regions of the world. The title describes interventions, such as retrofitted solutions, dynamic identification, and improved construction after earthquakes, that are equally applicable to regions of moderate and high seismicity. The book covers representative masonry buildings from active seismic regions, the material properties of masonry construction, numerical modelling techniques and computational advances, seismic performance of non-engineered masonry buildings, resilience in



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typical construction, retrofitting, and the cultural values and structural characterization of heritage masonry buildings in active seismic regions. This book is unique in its global and systematic coverage of masonry construction in seismic regions. Identifies the material properties of masonry construction from a seismic perspective Covers representative masonry buildings from active seismic regions, providing a benchmark to understand existing building stocks Provides numerical modelling techniques and reviews computational advances,

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**Design** including a large test database Details the seismic performance of non-engineered masonry buildings, as well as the cultural values and structural characterisation of heritage masonry constructions Analyses typical or vernacular constructions which have earthquake resilient features, such as Dhajji-Dewari, Borbone, Pombalino, and Himis

The Definitive Guide to Designing Reinforced Masonry Structures Fully updated to the 2009 International Building Code (2009 IBC) and the 2008 Masonry Standards

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Design Committee (MSJC-08), Design of Reinforced Masonry Structures, second edition, presents the latest methods for designing strong, safe, and economical structures with reinforced masonry. The book is packed with more than 425 illustrations and a wealth of new, detailed examples. This state-of-the-art guide features strength design philosophy for reinforced masonry structures based on ASCE 7-05 design loads for wind and seismic design. Written by an internationally acclaimed author, this essential professional tool takes you step-by-step through the art, science,

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Design and engineering of

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walls Retaining and

subterranean walls General

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tables

This book provides

background, reference

material, and guidance to

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building owners, and

contractors on existing

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**Design.** Construction characteristics of masonry structures, typical material properties, and analytical approaches are included for historic, transitional, and modern masonry construction typologies. The main focus of the book is structural stabilization, strengthening, and retrofit with maintenance and serviceability items (such as water penetration and cleaning) addressed as subtopics. This book also incorporates discussion on the evaluation and retrofit process, site investigation and analysis, retrofit, monitoring, and maintenance. Assessment and retrofit

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projects conducted by the authors are presented as case studies to highlight technical issues and illustrate the process of developing a rational methodology for different types of masonry assessment and retrofit projects. Assessment and retrofit projects conducted by the authors are presented in a special Chapter as case studies to highlight technical issues and illustrate the process of developing a rational assessment and retrofit methodology for different types of masonry assessment and retrofit projects.

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