

SVETLANA BRZEV & KEYA MITRA

Earthquake-Resistant Confined Masonry Construction

3rd
Edition

About the Book:

This book is written for building professionals interested in learning more about confined masonry (CM) construction and for those who would like to promote its application in India. Over the last 100 years, CM construction has emerged as a building typology that offers an alternative to both URM and RC frame construction in countries and regions of extremely high seismic risk. This book is part of an initiative launched in India to promote CM construction based on its proven record of good seismic performance.

This publication was originally authored by Svetlana Brzev as a monograph "Earthquake-Resistant Confined Masonry Construction", published by NICEE in 2007. More than 3000 copies of the monograph were circulated in English and Hindi over the last 10 years.

CM construction has a great potential for saving lives and property in areas of high seismic risk in India.. It is expected that the explanations of key concepts of seismic design and construction of CM buildings found in this book will be useful to building professionals and academics interested in learning more about this construction technology and in engaging in its design and construction.

Contents:

- Earthquakes and How They Affect Buildings
- Confined Masonry: Key Components and Worldwide Applications
- How are Confined Masonry Buildings Different from Unreinforced Masonry and RC Frames with Masonry Infills?
- How Earthquake Forces are Resisted in Confined Masonry Buildings
- How Confined Masonry Buildings Performed in Past Earthquakes
- Conceptual Architectural Planning and Design of Confined Masonry Buildings
- Preliminary Seismic Safety Check for CM Buildings
- Construction of CM Buildings
- Concluding Remarks

How to Order:

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