DESCRIPTION

This book is focused on the seismic vulnerability assessment methods, applied to existing buildings, describing several behaviors and new approaches for assessment on a large scale (urban area).

It is clear that the majority of urban centers are composed of old buildings, designed according to concepts and rules that are inadequate to the seismic context. How to assess the vulnerability of existing buildings is an essential step to improve the management of seismic risk and its prevention policy. After some key reminders, this book describes seismic vulnerability methods applied to a large number of structures (buildings and bridges) in moderate (France, Switzerland) and strong seismic prone regions (Italy, Greece).

Contents

5. Numerical Model: Simplified Strategies for Vulnerability Seismic Assessment of Existing Structures, Cédric Desprez, Panagiotis Kotronis and Stéphane Grange.
6. Approach Based on the Risk Used in Switzerland, Pierino Lestuzzi.

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