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Monitoring Earthquakes (pages 178 – 183) -  
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Measuring Earthquakes (pages 54 – 56) Key  
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measuring earthquakes are the Mercalli scale, the Richter scale, and the moment magnitude scale. • The Mercalli scale is based on the amount of damage an earthquake does. For example, a weak earthquake only rattles dishes. A strong earthquake can destroy buildings.



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weakest point (the focus) occurs. Vibrations (earthquakes) occur as the deformed rock “ springs back ” to its original...

Despite significant development in earthquake analysis and design in the last 50

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years or more, different structures related to industry, infra structure and human habitats get destroyed with monotonic regularity under strong motion earthquake. Even the recent earthquake in Mexico in September 2017 killed a number of people and destroyed national assets amounting to hundreds of millions of dollars. Careful

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evaluation of the technology reveals that, despite significant development in earthquake engineering, most of the books that are available on the market for reference are primarily focused towards buildings and framed type structures. It is accepted that during an earthquake it is buildings that get destroyed most and has been the biggest

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killers of human life. Yet, there are a number of structures like retaining walls, water tanks, Bunkers, silos, tall chimneys, bridge piers etc that are equally susceptible to earthquake, and if damaged can cause serious trouble and great economic distress. Unfortunately, many of these systems are analyzed by techniques that are too simplified,

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unrealistic/obsolete or nothing is done about them, ignoring completely the seismic effects, as no guidelines exist for their analysis/design (like seismic analysis of counterfort retaining walls or dynamic pressures on bunker walls etc.). This highly informative book addresses many of these items for which there exists a significant gap

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in technology and yet remain an important life line of considerable commercial significance. The book is an outcome of authors' academic research and practice across the four continents (USA, Europe, Africa and Asia) in the last thirty two years, where many of these technologies have been put in practice, that got tested against real

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time earthquakes. All methods presented herein have been published previously in peer reviewed research journals and international conferences of repute before being put to practice. Professionals working in international EPC and consulting engineering firms, graduates taking advanced courses in earthquake



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engineering, doctoral scholars pursuing research in earthquake engineering in the area of dynamic soil structure interaction (DSSI) and advanced under graduates wanting to self-learn and update themselves on earthquake analysis and design are greatly benefited from this book.

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The author examines natural disasters around the Pacific Rim throughout history together with scientific data context to produce enlightening—and highly readable—entries. • Features approximately 100 alphabetically arranged entries with insights into specific disasters, technology, key geographic features of the

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area, significant people, cultural beliefs, and more • Includes a general introduction and overview of the geography and tectonic activity in the Pacific Rim countries • Offers both historical and scientific information • Explains complex natural phenomena and scientific concepts using nontechnical language and clear illustrations

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- Provides relevant cross-references to related topics as well as to articles, books, and websites that offer further information

While numerous books have been written on earthquakes, earthquake resistance design, and seismic analysis and design of structures, none have been tailored for

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advanced students and practitioners, and those who would like to have most of the important aspects of seismic analysis in one place. With this book, readers will gain proficiencies in the following: fundamentals of seismology that all structural engineers must know; various forms of seismic inputs; different types of seismic analysis like, time

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and frequency domain analyses, spectral analysis of structures for random ground motion, response spectrum method of analysis; equivalent lateral load analysis as given in earthquake codes; inelastic response analysis and the concept of ductility; ground response analysis and seismic soil structure interaction; seismic reliability analysis of

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structures; and control of seismic response of structures. Provides comprehensive coverage, from seismology to seismic control Contains useful empirical equations often required in the seismic analysis of structures Outlines explicit steps for seismic analysis of MDOF systems with multi support excitations Works through solved

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problems to illustrate different concepts  
Makes use of MATLAB, SAP2000 and  
ABAQUAS in solving example problems of  
the book Provides numerous exercise  
problems to aid understanding of the subject  
As one of the first books to present such a  
comprehensive treatment of the topic,  
Seismic Analysis of Structures is ideal for



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postgraduates and researchers in Earthquake Engineering, Structural Dynamics, and Geotechnical Earthquake Engineering. Developed for classroom use, the book can also be used for advanced undergraduate students planning for a career or further study in the subject area. The book will also better equip structural engineering

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consultants and practicing engineers in the use of standard software for seismic analysis of buildings, bridges, dams, and towers.

Lecture materials for instructors available at [www.wiley.com/go/dattaseismic](http://www.wiley.com/go/dattaseismic)

This work is an elementary but comprehensive textbook which provides the

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latest updates in the fields of Earthquake Engineering, Dynamics of Structures, Seismology and Seismic Design, introducing relevant new topics to the fields such as the Neodeterministic method. Its main purpose is to illustrate the application of energy methods and the analysis in the frequency domain with the corresponding

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visualization in the Gauss-Argant plan. However, emphasis is also given to the applications of numerical methods for the solution of the equation of motion and to the ground motion selection to be used in time history analysis of structures. As supplementary materials, this book provides "OPENSIGNAL", a rare and unique

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software for ground motion selection and processing that can be used by professionals to select the correct earthquake records that would run in the nonlinear analysis. The book contains clear illustrations and figures to describe the subject in an intuitive way. It uses simple language and terminology and the math is limited only to cases where it is

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essential to understand the physical meaning of the system. Therefore, it is suitable also for those readers who approach these subjects for the first time and who only have a basic understanding of mathematics (linear algebra) and static analysis of structures.

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The conservation of monuments and historic sites is one of the most challenging problems facing modern civilization. It involves, in inextricable patterns, factors belonging to different fields (cultural, humanistic, social, technical, economical, administrative) and the requirements of

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safety and use appear to be (or often are) in conflict with the respect of the integrity of the monuments. The complexity of the topic is such that a shared framework of reference is still lacking among art historians, architects, structural and geotechnical engineers. The complexity of the subject is such that a shared frame of reference is still



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lacking among art historians, architects, architectural and geotechnical engineers. And while there are exemplary cases of an integral approach to each building element with its static and architectural function, as a material witness to the culture and construction techniques of the original historical period, there are still examples of

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uncritical reliance on modern technology leading to the substitution from earlier structures to new ones, preserving only the iconic look of the original monument.

Geotechnical Engineering for the Preservation of Monuments and Historic Sites III collects the contributions to the eponymous 3rd International ISSMGE

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TC301 Symposium (Naples, Italy, 22-24 June 2022). The papers cover a wide range of topics, which include: - Principles of conservation, maintenance strategies, case histories - The knowledge: investigations and monitoring - Seismic risk, site effects, soil structure interaction - Effects of urban development and tunnelling on built

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heritage - Preservation of diffuse heritage:  
soil instability, subsidence, environmental  
damages The present volume aims at  
geotechnical engineers and academics  
involved in the preservation of monuments  
and historic sites worldwide.

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This book reviews and assesses the various methodologies for site characterization and site effect estimation to carry out seismic zonation at micro and macro levels. Readers will learn about the suitability of these methodologies for each level of zoning that needs to be assessed in order to optimize the

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resources for carrying out seismic zonation. The Indian sub-continent is highly vulnerable to earthquake hazards, and past studies have focused primarily on the Himalayan region (inter-plate zone) and the northeast region (subduction zone). The book improves understanding of the Peninsular India that also has significantly

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high seismicity and is prone to earthquakes of sizeable magnitude. Particular attention is given to the various methodologies for assessing seismic hazards, the scales at which site characterizations are carried out, and optimal methods for zonation practices using site data and hazard indexes. Aimed at students, this book will be of use to post-

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graduates and doctoral students researching seismic zonation, hazard assessment and mitigation, and spatial data in earth sciences.

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions contains invited, keynote and theme lectures and



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regular papers presented at the 7th  
International Conference on Earthquake  
Geotechnical Engineering (Rome, Italy,  
17-20 June 2019). The contributions deal  
with recent developments and  
advancements as well as case histories, field  
monitoring, experimental characterization,  
physical and analytical modelling, and

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And Study Answers applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them. The book is divided in the sections below:  
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Special Session on Lessons learned from recent earthquakes Special Session on the Central Italy earthquake Regular papers Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions provides a significant up-to-date collection of recent experiences and developments, and aims at

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engineers, geologists and seismologists,  
consultants, public and private contractors,  
local national and international authorities,  
and to all those involved in research and  
practice related to Earthquake Geotechnical  
Engineering.

Tools to Safeguard New Buildings and

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Assess Existing Ones Nonlinear analysis methods such as static pushover are globally considered a reliable tool for seismic and structural assessment. But the accuracy of seismic capacity estimates—which can prevent catastrophic loss of life and astronomical damage repair costs—depends on the use of the correct basic input

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parameters. Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete Structures simplifies the estimation of those vital parameters. Many design engineers make the relatively common mistake of using default properties of materials as input to nonlinear analyses without realizing that any minor variation in the nonlinear

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characteristics of constitutive materials, such as concrete and steel, could result in a solution error that leads to incorrect assessment or interpretation. Streamlined Analysis Using a Mathematical Model To achieve a more accurate pushover analysis and improve general performance-based design, this book reassesses some key inputs,

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including axial force-bending moment yield interaction, moment-curvature, and moment-rotation characteristics. It analyzes these boundaries using a detailed mathematical model of reinforced concrete sections based on international codes, and then proposes design curves and tables derived from the authors' studies using a



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variety of nonlinear tools, computer programs, and software. The text reviews relevant literature and describes mathematical modeling, detailing numerical procedures step by step. Including supplementary online material that can be used to compute any parameter, this reference delineates nonlinear properties of

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materials so that they can be used instantly  
for seismic analysis without having to solve  
cumbersome equations.

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