Geotecnica

Cartografia geotécnica

Cartografia Geotécnica é fruto de 25 anos de atividades acadêmicas e profissionais exercidas no campo da Geotecnia pelos autores Lázaro Zuquette e Nilson Gandolfi, que criaram uma Escola que desenvolveu metodologias, formou mestrandos e doutorandos e mapeou mais de cinquenta mil quilômetros quadrados, principalmente no Estado de São Paulo. A Cartografia Geotécnica vem de encontro à expectativa da sociedade atual que exige uma inserção socioambiental das intervenções de engenharia, ou ainda, que sejam realizadas sob um paradigma de planejamento. A Cartografia Geotécnica tem um inequívoco papel nessa moderna abordagem na medida em que fornece subsídios racionais para as tomadas de decisão.Cartografia Geotécnica destina-se aos profissionais e estudantes dos cursos de Geologia, Engenharia Civil, Engenharia Ambiental, Arquitetura, Geografia, Engenharia Cartográfica e Agrimensura, e outros afins que buscam conhecimentos sobre o tema, e interagem em planejamento urbano e territorial, avaliação e gestão ambiental.

Géologie de L'ingénieur Appliquée Aux Travaux Anciens, Monuments Et Sites Historiques

Esta obra incorpora a engenharia geotécnica à prática da engenharia civil usando uma linguagem de fácil compreensão. Uma introdução à engenharia geotécnica se concentra tanto nos fundamentos quanto nas aplicações, cobrindo a classificação de engenharia, o comportamento e as propriedades dos solos necessárias para o projeto e a construção de fundações e estruturas de terra. Para colocar a teoria em contexto, apresenta a importância da engenharia das propriedades, como são determinadas ou medidas e como podem ser utilizadas em situações específicas de projeto. Projetos geotécnicos simples são ilustrados quando necessário. Exemplos permitem que o leitor siga as etapas de resolução de problemas e reforce sua compreensão dos temas abordados. Tópicos mais avançados em resistência ao cisalhamento de solos e rochas estão incluídos no capítulo final.

Uma Introdução à Engenharia Geotécnica

A cartografia geotécnica voltada para auxiliar uso e ocupação do solo nas cidades é de extrema importância, e o correto planejamento urbano pode prevenir a população de acidentes extremos naturais decorrentes do mau uso do solo. Esta pesquisa destina-se a reunir conhecimento geotécnico atualizado da Cidade de Teresina-PI, estabelecendo subsídios ao enfrentamento de solos problemáticos, assim como compreender as técnicas de fundações adotadas no município através de Geoprocessamento. A capital do Piauí passa por uma expansão da área física, e este estudo tem por finalidade contribuir para o entendimento geotécnico local, assim como apresentar o histórico de ocorrências de eventos extremos naturais. Por meio dos mais recentes levantamentos Geológicos, Pedológicos e Climatológicos, foram elaboradas cartas interpretativas de suscetibilidade à ocorrência de solos Colapsíveis e Expansivos de Teresina, assim como foi analisada a influência que a geologia, a pedologia e a geotecnia exercem na prática de fundações. A prática de fundações em Teresina é influenciada pela presença de arenitos silificados, evidenciada pela profundidade da camada, espessura e principalmente as condições de fraturas destes. Predominam no município argilas de baixa e média atividade, como a caulinita e ilita, e não foram identificadas argilas dispersivas.

Fundações de Pontes: Hidráulica E Geotécnica

Em muitos rios da Amazônia, principalmente, ao longo do rio Amazonas, ocorre o fenômeno das \"terras caídas\

Contribuição à cartografia geotécnica no município de Teresina-PI

Título: Caracterização geotécnica do solo através de sondagem SPT no município de Viçosa-MG Idioma: PT ISBN: 978-65-981355-7-7 Autor(es)/ Organizador(es): Max Miller Alves de Oliveira

Mecânica dos Solos. Vol.2: Introdução à Engenharia Geotécnica

This volume deals with the most modern and topical problems of bridge design. The topics presented allow to tackle both theoretical-analytical as well as technical-constructive aspects of the design problem, pointing out how in the case of bridges, specifically for long span bridges, the two aspects are absolutely inseparable. In modern bridges, reasons of technical and economic feasibility oblige an extreme parceling of the construction process, with the consequent need to revise, with respect to the past, both design concepts as well as the theoretical apparatus of analysis that governs it. All this can clearly be derived from reading the present volume, in which the different contributions stress theoretical and technical questions of particular interest and topicality, without claiming to approach them systematically, but offering clear procedural rules and trend indications. With reference to the theoretical approach, some of particular importance are reviewed, such as the possibility of using limit analysis, the simplification of the design process for bridges, durability, and computer aided design. For what concerns the bridge typologies and the corresponding constructive problems, the emphasis is mostly on the ones still in an evolutionary phase, that is long span suspended/stayed bridges and cantilever built bridges with prefabricated segments.

Caracterização e modelagem geotécnica do fenômeno das terras caídas no ambiente Amazônico

Aim of this book is to present to researchers and engineers a description of the present knowledge on the viscoplasticity of geomaterials, considering the experimental and theoretical aspects and the applications to relevant problems. First, the laboratory tests performed in order to quantitatively assess the theological properties of rocks are illustrated, describing the equipments used in modern rock mechanics laboratories and the proper testing procedures. Part of the presentation is devoted to the description of constitutive creep laws having different degrees of accuracy and complexity. The book covers also problems related to the application of numerical solution procedures to rock/soil mechanics situations in which the slow deformation of geomaterials is to be taken into account.

Caracterização geotécnica do solo através de sondagem SPT no município de Viçosa-MG

Landslides and Engineered Slopes. Experience, Theory and Practice contains the invited lectures and all papers presented at the 12th International Symposium on Landslides, (Naples, Italy, 12-19 June 2016). The book aims to emphasize the relationship between landslides and other natural hazards. Hence, three of the main sessions focus on Volcanic-induced landslides, Earthquake-induced landslides and Weather-induced landslides respectively, while the fourth main session deals with Human-induced landslides. Some papers presented in a special session devoted to \"Subareal and submarine landslide processes and hazard” and in a “Young Session” complete the books. Landslides and Engineered Slopes. Experience, Theory and Practice underlines the importance of the classic approach of modern science, which moves from experience to theory, as the basic instrument to study landslides. Experience is the key to understand the natural phenomena focusing on all the factors that play a major role. Theory is the instrument to manage the data provided by experience following a mathematical approach; this allows not only to clarify the nature and the deep causes of phenomena but mostly, to predict future and, if required, manage similar events. Practical benefits from the results of theory to protect people and man-made works. Landslides and Engineered Slopes. Experience, Theory and Practice is useful to scientists and practitioners working in the areas of rock and soil mechanics, geotechnical engineering, engineering geology and geology.

Advanced Problems in Bridge Construction

Trabajo Universitario del año 2012 en eltema Ingeniería - Geotécnica, Nota: ninguna, Universidad Nacional de Colombia, Materia: Investigación del subsuelo e Instrumentación, Idioma: Español, Resumen: Este documento es un resumen integrado de veintiún (21) artículos científicos suministrados en la asignatura de Investigación del subsuelo e Instrumentación de la Maestría en Ingeniería - Geotecnia cursada en la Universidad Nacional de Colombia en el año 2012 y dirigida por el Docente XY - IC, M.Sc. Estos artículos se relacionan con las pruebas de campo que se pueden llevar a cabo durante la investigación geotécnica, entre las que se citan SPT, LPT, penetrómetros dinámicos y cuasi-estáticos, ensayos de corte y torsión, presurómetros, pruebas de placa, entre otros.

Visco-Plastic Behaviour of Geomaterials

Methods for improving ground and soil have undergone significant developments in recent years, particularly in terms of application and usage, and many innovative techniques have been introduced. However, it is of significance that in many areas the design process still lacks a theoretical framework. The papers included in this volume, written by international authors, deal with a cross-section of problems faced by many practising engineers and provide advice and guidance on how these problems can be dealt with in a practical manner.

Landslides and Engineered Slopes. Experience, Theory and Practice

All the traces of historic heritage are a fundamental part of our environment and reward us in the form of cultural enrichment, with the ability to have a positive effect both on our lifestyle and economy. Therefore, the preservation of ancient monuments, historic towns and sites has increasingly drawn the attention of public opinion, governmental

Pruebas de Campo en la Investigación Geotécnica

In November 2015, Buenos Aires, Argentina became the location of several important events for geo-professionals, with the simultaneous holding of the 8th South American Congress on Rock Mechanics (SCRM), the 15th Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XV PCSMGE), and the 6th International Symposium on Deformation Characteristics of Geomaterials, as well as the 22nd Argentinean Congress of Geotechnical Engineering (CAMSIGXXII). This synergy brought together international experts, researchers, academics, professionals and geo-engineering companies in a unique opportunity to exchange ideas and discuss current and future practices in the areas of soil mechanics and rock mechanics, and their applications in civil, energy, environmental, and mining engineering. This book presents the proceedings of the 8th South American Congress on Rock Mechanics (SCRM). Topics covered include rock mechanics, rock engineering, natural resources, mining, mechanics, geology and engineering. Approximately 60% of the contributions are in English, and the remaining 40% of the contributions are in either Spanish or Portuguese.

Ground and Soil Improvement

This volume contains the proceedings of the 12th International Conference on Geosynthetics (12 ICG), held in Roma, Italy, 17-21 September 2023. About 750 Authors - Academics, Researchers, Students, Practitioners, Contractors and Manufacturers – contributed to the peer-reviewed papers of this volume, which includes the Giroud lecture, the Bathurst lecture, the Rowe lecture, four keynote lectures and 296 technical papers. The content of these proceedings illustrates the sustainable use of geosynthetics in a variety of innovative as well as consolidated applications. After the sustainability implications in the correct use of geosynthetics, the ability to overcome the natural events effects, often related to the climate change, and to adequately afford the human activities (as the increase of pollution) forced to refer to a new keyword:

Resiliency. The 12 ICG intends to become the base for the next step, hence the conference theme is 'Geosynthetics, Leading the Way to a Resilient Planet'. The conference topics, through general and parallel sessions, invited presentations and keynote lectures, address the most recent developments in geosynthetic engineering, and stimulate fruitful technical and scientific interaction among academicians, professionals, manufacturers, students. The 12 ICG proceedings contain a wealth of information that could be useful for researchers, practitioners and all those working in the broad, innovative and dynamic field of geosynthetics.

Geotechnical Engineering for the Preservation of Monuments and Historic Sites

rimangono mute; la progettazione geotecnica è pertanto una pratica legata indissolubilmente alla approfondita conoscenza dei terreni e delle leggi fisiche che ne governano il comportamento meccanico. Dopo un lungo periodo in cui in Italia la materia è stata disciplinata da decreti ministeriali separatamente dalle norme tecniche di progettazione strutturale, con l'avvento degli Eurocodici e delle NTC 2008 si assiste finalmente ad una integrazione della geotecnica nel novero delle discipline progettuali dell'ingegneria civile. Il testo si prefigge lo scopo principale di esaminare in dettaglio i contenuti del capitolo 6 delle NTC 2008 – Progettazione geotecnica, elaborandone i significati ed integrandone le prescrizioni e i suggerimenti con quanto espresso negli Eurocodici. Il libro, organizzato in modo riflessivo e discorsivo, non vuole appositamente eccedere in approfonditi tecnicismi per i quali si rimanda a testi ben più autorevoli e specializzati; esso risulta diviso in capitoli in funzione delle opere geotecniche trattate, con numerose schede applicative di approfondimento al termine di ogni sezione. E' rivolto a Ingegneri, Geologi e a tutti i tecnici coinvolti a vario titolo nelle problematiche di carattere geotecnico. Piergiuseppe Froldi, laureato in Scienze Geologiche e in Ingegneria, ha svolto attività di direzione tecnica per un'importante società di geoingegneria ed esercita attualmente le professioni di Ingegnere e Geologo. Dopo aver maturato una vasta esperienza nelle discipline geotecniche e geomeccaniche, consegue a Parigi, presso il prestigioso istituto universitario nazionale CNAM, il titolo di Ingegnere Geotecnico.

Integrating Innovations of Rock Mechanics

The first Pan-American Conference on Soil Mechanics and Geotechnical Engineering (PCSMGE) was held in Mexico in 1959. Every 4 years since then, PCSMGE has brought together the geotechnical engineering community from all over the world to discuss the problems, solutions and future challenges facing this engineering sector. Sixty years after the first conference, the 2019 edition returns to Mexico. This book, Geotechnical Engineering in the XXI Century: Lessons learned and future challenges, presents the proceedings of the XVI Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XVI PCSMGE), held in Cancun, Mexico, from 17 – 20 November 2019. Of the 393 full papers submitted, 335 were accepted for publication after peer review. They are included here organized into 19 technical sessions, and cover a wide range of themes related to geotechnical engineering in the 21st century. Topics covered include: laboratory and in-situ testing; analytical and physical modeling in geotechnics; numerical modeling in geotechnics; unsaturated soils; soft soils; foundations and retaining structures; excavations and tunnels; offshore geotechnics; transportation in geotechnics; natural hazards; embankments and tailings dams; soils dynamics and earthquake engineering; ground improvement; sustainability and geo-environment; preservation of historic sites; forensics engineering; rock mechanics; education; and energy geotechnics. Providing a state-of-the-art overview of research into innovative and challenging applications in the field, the book will be of interest to all those working in soil mechanics and geotechnical engineering. In this proceedings, 58% of the contributions are in English, and 42% of the contributions are in Spanish or Portuguese.

Geosynthetics: Leading the Way to a Resilient Planet

The first Pan-American Conference on Soil Mechanics and Geotechnical Engineering (PCSMGE) was held in Mexico in 1959. Every 4 years since then, PCSMGE has brought together the geotechnical engineering community from all over the world to discuss the problems, solutions and future challenges facing this

engineering sector. Sixty years after the first conference, the 2019 edition returns to Mexico. The XVI PCSMGE 2019 conference was held in Cancun, Mexico, from 17 – 20 November 2019. This book presents the plenary lectures from the conference, delivered by distinguished geotechnical engineers of international renown. Experience and youth combine in this special publication, which includes the 9th Arthur Casagrande lecture, the plenary lecture of the ISSMGE President, 3 Bright Spark lectures, and the manuscripts of the 13 invited lecturers of practically all the technical sessions at the XVI PCSMGE 2019. Topics cover both research and applied geotechnics, including recent developments in geotechnical engineering. Representing a valuable reference for engineering practitioners and graduate students, and helping to identify new issues and shape future directions for research, the book will be of interest to all those working in the field, involved in soil mechanics and geotechnical engineering.

Progettazione e relazione geotecnica

This volume contains the 49 papers which form the proceedings of the Wroth Memorial Symposium. The themes of the symposium were soil properties and their measurement, especially means of in-situ tests, prediction and performance, and design methods.

12o Conferencia Panamericana de Mecánica de Suelos E Ingenieria Geotécnica, 39th U.S. Rock Mechanics Symposium, June 22-26th, 2003, Cambridge, Massachusetts, USA.

Although foundation engineering is recognised as a mature discipline with geotechnics, the diversity of applications and studies evident in this book demonstrates that the field is still developing and will continue to provide challenges for engineers for many years.

ICCROM Master List of Acquisitions

This volume contains the papers contributed to the Nakase Memorial Symposium with the theme: Soft Ground Engineering in Coastal Areas, held in Yokusuka, Japan in November 2002. The meeting was organized as a tribute to Professor Ako Nakase, and was attended by 125 participants including his Japanese colleagues and friends from overseas. The topics covered included: fundamental Characteristics of Clay Soils; Estimation of consolidation settlement in large-scale reclamation; Soil improvement methods in coastal areas; Reuse of dredged soils and behaviour of coastal structures under earthquake; and Evaluation for the stability of coastal structures.

Geotechnical Engineering in the XXI Century: Lessons learned and future challenges

Conservation of monuments and historic sites is one of the most challenging problems facing modern civilization. It involves various cultural, humanistic, social, technical, economical and administrative factors, intertwining in inextricable patterns. The complexity of the topic is such that guidelines or recommendations for intervention techniques and design approaches are difficult to set. The Technical Committee on the Preservation of Monuments and Historic Sites (named TC19) was established by the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) in 1981, is supported by the Italian Geotechnical Society (AGI), and renamed TC301 in 2010. Geotechnics and Heritage, collects relevant case histories on the role of geotechnical engineering in the preservation of monuments and historic sites, and is an addition to the Proceedings of the two International Symposia organized by the Committee in Napoli in 1994 and 2013. The contributions in the book proof the significant role geotechnical engineering plays in conservation of historic building and monuments.

From Research to Applied Geotechnics

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions contains invited, keynote and theme lectures and 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 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: Invited papers Keynote papers Theme lectures Special Session on Large Scale Testing Special Session on Liquefact Projects 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 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.

Predictive Soil Mechanics

The work of geotechnical engineers contributes to the creation of safe, economic and pleasant spaces to live, work and relax all over the world. Advances are constantly being made, and the expertise of the profession becomes ever more important with the increased pressure on space and resources. This book presents the proceedings of the 15th Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XV PCSMGE), held in Buenos Aires, Argentina, in November 2015. This conference, held every four years, is an important opportunity for international experts, researchers, academics, professionals and geo-engineering companies to meet and exchange ideas and research findings in the areas of soil mechanics, rock mechanics, and their applications in civil, mining and environmental engineering. The articles are divided into nine sections: transportation geotechnics; in-situ testing; geo-engineering for energy and sustainability; numerical modeling in geotechnics; foundations and ground improvement; unsaturated soil behavior; embankments, dams and tailings; excavations and tunnels; and geo-risks, and cover a wide spectrum of issues from fundamentals to applications in geotechnics. This book will undoubtedly represent an essential reference for academics, researchers and practitioners in the field of soil mechanics and geotechnical engineering. In this proceedings, approximately 65% of the contributions are in English, and 35% of the contributions are in Spanish or Portuguese.

BGA International Conference on Foundations

Since 1972, scientists from all over the world working on fundamental questions of echinoderm biology and palaeontology have conferred every three years to exchange current views and results. The 11th International Echinoderm Conference held at the University of Munich, Germany, from 6-10 October 2003,continued this tradition. This volume comprises 95 submitted papers and 96 abstracts covering a wide spectrum from innovative student contributions to the lessons learnt from experienced specialists. The content of the contributions ranges from original research results to the latest synopses concerning a variety of topics, including visual sensing, larval cloning, mutable collagenous tissues, sea urchin aqua-culture, deuterostome phylogeny, palaeobiology and taphonomy.

Soft Ground Engineering in Coastal Areas

Keine ausführliche Beschreibung für \"1982\" verfügbar.

Geotechnics and Heritage

These volumes comprise the Proceedings of the Ninth International Symposium on Landslides, held in Rio de Janeiro, Brazil, from June 28 to July 2, 2004. Information on the latest developments in Landslide Studies is presented by invited lecture reports, specialized panel contributions and over two hundred and forty

technical papers, grouped in the following themes: - Mapping and geological models in landslide hazard assessment, - Advances in rock and mine slopes design, - Field instrumentation and laboratory investigations, - Pre-failure mechanics of landslides in soil and rock, - Mechanisms of slow active landslides, - Post-failure mechanics of landslides, - Stabilization methods and risk reduction measures. A wealth of the latest information on all aspects of landslide hazard, encompassing geological modelling and soil and rock mechanics, landslide processes, causes and effects, and damage avoidance and limitation strategies.

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions

This book presents the second volume of Piola's original Italian text together with the English-language translation and comments, showing convincingly that Gabrio Piola's work must still be regarded as a modern theory. Gabrio Piola's work has had an enormous impact on the development of applied mathematics and continuum mechanics. As such, a committee of scientific experts took it upon themselves to translate his complete works. In a second step, they commented on Piola's work and compared it to modern theories in mechanics in order to stress Piola's impact on modern science and prove and confirm that he achieved significant milestones in applied mathematics.

From Fundamentals to Applications in Geotechnics

The accelerated, and often uncontrolled, growth of the cities has contributed to the ecological transformation of their immediate surroundings. Factors contributing to the urban vulnerability include: lowering or rising of the water table, subsidence, loss of bearing capacity of soil foundations and instability of slopes. Recent catastrophic earthquakes highlight the poor understanding by decision makers of seismic related risk, as well as the tendency of some builders to use the cheapest designs and construction materials to increase short-term economic returns on their investment. Losses from earthquakes will continue to increase if we do not shift towards proactive solution. Disaster reduction is both an issue for consideration in the sustainable development agenda and a cross-cutting issue relating to the social, economic, environmental and humanitarian sectors. As location is the key factor, which determines the level of risk associated with a hazard, land-use plans and mapping should be used as tools to identify the most suitable usage for vulnerable areas.

Echinoderms: Munchen

The best way to minimize damage from earthquakes is to predict their location and effects and reinforce against those possible effects. Toward that end, this book presents prediction methods useful for the design of earthquake-resistant structures. In the first of two parts, the book deals with issues relating to the characterisation and the rational definition of seismic input. It begins with a study of earthquake records that leads to the identification of their damage potential parameters, such as the peak ground acceleration and the strong motion duration. Subsequent chapters concern themselves with the deterministic and probabilistic methodologies for producing seismic inputs. Further chapters are dedicated to the generation of artificial seismic input on the basis of stochastic or probabilistic approaches. The second part of this volume deals with the effects of ground motion on foundation elements and structural integrity. Particular emphasis is given to the interaction of foundation piles with vibrating soils, homogeneous or heterogeneous. The final two chapters are concerned with the possible connection between soil structure interaction (SSI) and structural damage. In both instances records of actual earthquake induced motion are used for such assessments.

1982

This text presents findings from the 3rd International Geotechnical Seminar, held in Ghent, Belgium. Topics include: American experiences with large diameter bored piles; case histories; static, dynamic and pile

integrity testing; and installation parameters and capacity of screwed piles.

Rivista italiana di geotecnica

This volume gathers the latest advances, innovations, and applications in the field of geotechnical engineering, as presented by leading researchers and engineers at the 7th Italian National Congress of Geotechnical Researchers (CNRIG 2019), entitled “Geotechnical Research for the Protection and Development of the Territory” (Lecco, Italy, July 3-5, 2019). The congress is intended to promote exchanges on the role of geotechnical research and its findings regarding the protection against natural hazards, design criteria for structures and infrastructures, and the definition of sustainable development strategies. The contributions cover a diverse range of topics, including infrastructural challenges, underground space utilization, and sustainable construction in problematic soils and situations, as well as geo-environmental aspects such as landfills, environmental and energy geotechnics, geotechnical monitoring, and risk assessment and mitigation. Selected by means of a rigorous peer-review process, they will spur novel research directions and foster future multidisciplinary collaborations.

Landslides: Evaluation and Stabilization/Glissement de Terrain: Evaluation et Stabilisation, Set of 2 Volumes

This book is unique on the subject because it is not so much a collection of individual work, but basically comprising national reports from most European countries on the present-day design methods, as prescribed in more or less strict national codes or recommendations and so daily used in practice by consulting engineers and contractors. As far as already implemented, the application of these methods within the framework of Eurocode 7 is described as well. In order to improve the understanding of the design methods, the national papers also consider aspects such as the local piling practice, limitations of the design methods, some practical examples and particular national experiences. The proceedings also include the contributions of two invited speakers as well as those of the three session discussion leaders, focusing on some particular aspects with regards to pile design. The book is of particular interest for those who are involved with pile design in practice, consulting engineers, piling contractors, control organisms as well as those dealing with geotechnical normalisation and research work.

The Complete Works of Gabrio Piola: Volume II

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 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 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 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 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 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.

Seismic Ground Motion in Large Urban Areas

Proceedings fib Symposium in Prague Czech Republic Vol2
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