

MECHANIZED TUNNELLING IN URBAN AREAS

design methodology and construction control



Vittorio Guglielmetti, Piergiorgio Grasso, Ashraf Mahtab & Shulin Xu
EDITORS

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Mechanized Tunnelling In Urban Areas Design Methodology And Construction Control

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Mechanized Tunnelling In Urban Areas Design Methodology And Construction Control:

Mechanized Tunnelling in Urban Areas Vittorio Guglielmetti, Piergiorgio Grasso, Ashraf Mahtab, Shulin Xu, 2008-01-07 Internationally the mechanized excavation of tunnels has intensified in the last two decades as the number of tunnels being constructed for subways and railway underpasses increases The subject of mechanized tunnelling in urban areas has not previously received the attention that it deserves despite there being specific hazards associated with the construction of tunnels in metropolitan areas including poor ground conditions water tables higher than the level of tunnels and subsidence leading to damage to the existing structures on the surface The application of technologies for achieving the stability of the tunnel and for minimizing surface settlement is described in this book Accurate characterization of the ground rigorous assessment and management of risk from design to maintenance the correct choice of a tunnel boring machine and a plan for the advancement of the tunnel specific excavation procedures and real time monitoring of excavation parameters are all discussed in this thorough work

Mechanized Tunnelling in Urban Areas, 2nd edition Vittorio Guglielmetti, Piergiorgio Grasso, Ashraf Mahtab, Shulin Xu, 2015-09-01 Specific hazards associated with the construction of tunnels in metropolitan areas exist including poor ground conditions water tables higher than the level of tunnels and subsidence leading to damage to the existing structures on the surface This book describes the application of technologies for achieving the stability of tunnels and for minimizing surface settlement Important topics discussed include accurate characterization of the ground rigorous assessment and management of risk from design to maintenance the correct choice of a tunnel boring machine a plan for the advancement of the tunnel specific excavation procedures and real time monitoring of excavation parameters This wholly revised and expanded 2nd edition includes various important updates particularly with respect to aspects of mechanized technology updated by the industry and to experience gained from some new case histories It also includes new sections on contingency plans and on the methodology for implementing a geological hydrogeological and geotechnical model which lies at the basis of every tunnelling design The work will be of interest to practising engineers designers consultants and students in mining underground tunnelling transportation and construction engineering as well as to foundation and geological engineers urban planners developers and architects

Rock Mechanics and Engineering Volume 4 Xia-Ting Feng, 2017-05-18 Excavation Support and Monitoring is the fourth volume of the five volume set Rock Mechanics and Engineering and contains twenty three chapters from key experts in the following fields Excavation Methods Support Technology Monitoring Technology Integrated Engineering Monitoring and Analysis The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A Hudson This new

compilation offers an extremely wide ranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed dedicated contributions by all the key experts worldwide Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields Contributors are world renowned experts in the fields of rock mechanics and rock engineering though younger talented researchers have also been included The individual volumes cover an extremely wide array of topics grouped under five overarching themes Principles Vol 1 Laboratory and Field Testing Vol 2 Analysis Modelling and Design Vol 3 Excavation Support and Monitoring Vol 4 and Surface and Underground Projects Vol 5 This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come **Practical**

Management of Tunneling with Tunnel Boring Machines Nuh Bilgin, Sinan Acun, 2024-02-12 This book covers the management of mechanized tunneling with examples from global projects It starts with an introduction to mechanized tunneling including management of job organization planning job sites portals or launching boxes in mountains open fields and urban areas The management of the transport with belt conveyors locomotives and multi service vehicles is explained with numerical examples Cost management and basic parameters governing tunneling costs in different countries are discussed Risk management in mechanized tunneling projects is also explained Features Offers the practical issues with setting up a job site the cost and logistic issues related to tunneling Reviews cost management and basic parameters governing tunneling costs in different countries Covers treatment of spoil management plan and the management of contaminated ground Explores key points on the logistics and the management of the consumables Provides the latest international case studies of specific companies This book is aimed at professionals and researchers in tunneling civil and mining engineering and geology **Geotechnical Aspects of Underground Construction in Soft Ground. 2nd Edition**

Mohammed Elshafie, Giulia Viggiani, Robert Mair, 2022-12-26 GEOTECHNICAL ASPECTS OF UNDERGROUND CONSTRUCTION IN SOFT GROUND comprises a collection of 112 contributions presented at the Tenth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground held in Cambridge United Kingdom 27 29th June 2022 This 2nd edition also includes four general reports on the symposium themes which give an overview of the papers submitted to the symposium covered in four technical sessions The symposium is the latest in a series which began in New Delhi in 1994 and was followed by symposia in London 1996 Tokyo 1999 Toulouse 2002 Amsterdam 2005 Shanghai 2008 Rome 2011 Seoul 2014 and Sao Paulo 2017 This symposium was organised by the Geotechnical Research Group at the University of Cambridge under the auspices of the Technical Committee TC204 of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE Geotechnical Aspects of Underground Construction in Soft Ground includes contributions from more than 25 countries on the research design and construction of underground works in soft

ground The contributions cover the following themes Field case studies Sensing technologies and monitoring for underground construction in soft ground Physical and numerical modelling of tunnels and deep excavations in soft ground Seismic response of underground infrastructure in soft ground Design and application of ground improvement for underground construction Ground movements interaction with existing structures and mitigation measures Similar to previous editions **GEOTECHNICAL ASPECTS OF UNDERGROUND CONSTRUCTION IN SOFT GROUND** represents a valuable source of reference on the current practice of analysis design and construction of tunnels and deep excavations in soft ground The book is particularly aimed at academics and professionals interested in geotechnical and underground engineering

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Engineering Challenges for Sustainable Underground Use Sherif Agaiby, Piergiorgio Grasso, 2017-07-11 This volume comprises a set of high quality refereed papers that address the different aspects related to the geotechnical and structural design and construction of deep

excavations tunnels and underground space facilities as well as the effect of their construction on the surroundings The papers cover planning design modeling monitoring and construction aspects of these essential structures This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures Egypt 2017

Tunnels and Underground Cities. Engineering and Innovation Meet Archaeology, Architecture and Art Daniele Peila, Giulia Viggiani, Tarcisio Celestino, 2019-04-17 Tunnels and Underground Cities Engineering and Innovation meet Archaeology Architecture and Art contains the contributions presented at the World Tunnel Congress 2019 Naples Italy 3 9 May 2019 The use of underground space is continuing to grow due to global urbanization public demand for efficient transportation and energy saving production and distribution The growing need for space at ground level along with its continuous value increase and the challenges of energy saving and achieving sustainable development objectives demand greater and better use of the underground space to ensure that it supports sustainable resilient and more liveable cities This vision was the source of inspiration for the design of the logos of both the International ITA and Italian SIG Tunnelling Association By placing key infrastructures underground the black circle in the logos it will be possible to preserve and enhance the quality of the space at ground level the green line In order to consider and value underground space usage together with human and social needs engineers architects and artists will have to learn to collaborate and develop an interdisciplinary design approach that addresses functionality safety aesthetics and quality of life and adaptability to future and varied functions The 700 contributions cover a wide range of topics from more traditional subjects connected to technical challenges of design and construction of underground works with emphasis on innovation in tunneling engineering to less conventional and archetypically Italian themes such as archaeology architecture and art The book has the following main themes Archaeology Architecture and Art in underground construction Environment sustainability in underground construction Geological and geotechnical knowledge and requirements for project implementation Ground improvement in underground constructions Innovation in underground engineering materials and equipment Long and deep tunnels Public communication and awareness Risk management contracts and financial aspects Safety in underground construction Strategic use of underground space for resilient cities Urban tunnels Tunnels and Underground Cities Engineering and Innovation meet Archaeology Architecture and Art is a valuable reference text for tunneling specialists owners engineers architects and others involved in underground planning design and building around the world and for academics who are interested in underground constructions and geotechnics

Underground Facilities for Better Environment and Safety, 2008

Thông báo sách mới, 2009

Tunneling G. A. Cristy, Oak Ridge National Laboratory, 1970

Urban Transportation Abstracts, 1986

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Geotechnical and Geophysical Site Characterization António Viana da Fonseca, Paul W. Mayne, 2004 Soils and rocks are complex natural geomaterials that exhibit a wide range in strength stiffness

state of stress structure and flow characteristics Geotechnical Geophysical Site Characterization provides eleven keynote state of the art papers including the Mitchell Lecture A total selection of 219 technical papers and theme reports address methods of site exploration related to ground exploration for civil engineering and construction works These two volumes represent a collection of experience knowledge regarding various methods of in situ testing geophysical techniques innovative devices improved interpretation algorithms and statistical treatment of field data for the characterization of soils rocks and other geomaterials The papers represent the written records and documented efforts from international experts from industry academe and government who participated in the Second International Conference on Site Characterization held in Porto Portugal on September 20 22 2004 Topics include the utilization of rotary drilling sampling and coring techniques Of particular interest is the variety of in situ tests including standard penetration cone penetration flat dilatometer pressuremeter vane shear piezocone dynamic probes and specialized tools as well as geophysical approaches resistivity surveys surface waves crosshole downhole electromagnetic conductivity and ground penetrating radar A careful and proper site evaluation is required in the analysis and design of new structures construction monitoring and forensic studies that require remediation Many of the contributions relate to case studies of projects that involve shallow foundations drilled shafts pilings slope stability excavations earth dams tunnels and mining Several papers discuss a combined approach using multiple methods and or complementary set of geotechnical geophysical tests to ascertain the characteristics of the ground back cover

HRIS Abstracts ,1988 *Rock Engineering and Excavation in an Urban Environment* ,1986

Queensland Government Mining Journal ,1970

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