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This volume presents a selection of chapters covering a wide range of tunneling engineering topics. The scope was to present reviews of established methods and new approaches in construction practice and in digital technology tools like building information modeling. The book is divided in four sections dealing with geological aspects of tunneling, analysis and design, new challenges in tunnel ...

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Tunnels Fault At The Tunnel Site • As in other civil engineering projects, in tunnels too, faults are harmful and undesirable because they create a variety of problems. • The active fault are places where there is scope for further recurrence of faulting, which will be accompanied by the physical displacement of litho units.

The Tunnel Engineering Handbook, Second Edition provides, in a single convenient volume, comprehensive coverage of the state of the art in the design, construction, and rehabilitation of tunnels. It brings together essential information on all the principal classifications of tunnels, including soft ground, hard rock, immersed tube and cut-and-cover, with comparisons of their relative advantages and suitability. The broad coverage found in the Tunnel Engineering Handbook enables engineers to address such critical questions as how tunnels are planned and laid out, how the design of tunnels depends on site and ground conditions, and which types of tunnels and construction methods are best suited to different conditions. Written by the leading engineers in the fields, this second edition features major revisions from the first, including: • Complete updating of all chapters from the first edition • Seven completely new chapters covering tunnel stabilization and lining, difficult ground, deep shafts, water conveyance tunnels, small diameter tunnels, fire life safety, tunnel rehabilitation and tunnel construction contracting •New coverage of the modern philosophy and techniques of tunnel design and tunnel construction contracting The comprehensive coverage of the Tunnel Engineering Handbook makes it an essential resource for all practicing engineers engaged in the design of tunnels and underground construction. In addition, the book contains a wealth of information that government administrators and planners and transportation officials will use in the planning and management of tunnels.

Tunnel construction is expensive when compared to the construction of other engineering structures. As such, there is always the need to develop more sophisticated and effective methods of construction. There are many long and large tunnels with various purposes in the world, especially for highways, railways, water conveyance, and energy production. Tunnels can be designed effectively by means of two and three-dimensional numerical models. Ground-structure interaction is one of the significant factors acting on economic and safe design. This book presents recent data on tunnel engineering to improve the theory and practice of the construction of underground structures. It provides an overview of tunneling technology and includes chapters that address analytical and numerical methods for rock load estimation and design support systems and advances in measurement systems for underground structures. The book discusses the empirical, analytical, and numerical methods of tunneling practice worldwide.

Tunnel engineering is one of the oldest, most interesting but also challenging engineering disciplines and demands not only theoretical knowledge but also practical experience in geology, geomechanics, structural design, concrete construction, machine technology, construction process technology and construction management. The two-volume 'Handbuch des Tunnel- und Stollenbaus' has been the standard reference for German-speaking tunnellers in theory and practice for 30 years. The new English edition is based on a revised and adapted version of the third German edition and reflects the latest state of knowledge. The book is published in two volumes, with the first being devoted to more practical themes of construction and construction process in drill and blast and mechanised tunnelling. Microtunnelling and ventilation are also dealt with. All chapters include practical examples.

Shield Tunnel Engineering: From Theory to Practice is a key technique that offers one of the most important ways to build tunnels in fast, relatively safe, and ecologically friendly ways. The book presents state-of-the-art solutions for engineers working within the field of shield tunnelling technology for railways. It includes expertise from major projects in shield tunnel construction for high-speed rail, subways and other major projects. In particular, it presents a series of advances in shield muck conditioning technology, slurry treatment, backfill grouting, and environmental impact and control. In this volume, foundational knowledge is combined with the latest advances in shield tunnel engineering. Twelve chapters cover key areas including geological investigation, the types, structures and workings of shield machines, selecting a machine, shield segment design, shield tunnelling parameter control, soil conditioning for earth pressure balance (EPB) shield tunnelling, shield slurry treatment, backfill grouting, environmental impact, and problems in shield tunnel structures and their amelioration. This book presents the essential knowledge needed for shield tunnel engineering, the latest advances in the field, and practical guidance for engineers. Presents the foundational concepts of shield tunnel engineering Gives the latest advances in shield tunnel engineering techniques Considers common problems in shield tunnel structures and their solutions Lays out step-by-step guidance for engineers working with shield tunnelling Assesses environmental impacts and their control in shield tunnel engineering

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This volume presents a selection of chapters covering a wide range of tunneling engineering topics. The scope was to present reviews of established methods and new approaches in construction practice and in digital technology tools like building information modeling. The book is divided in four sections dealing with geological aspects of tunneling, analysis and design, new challenges in tunnel construction, and tunneling in the digital era. Topics from site investigation and rock mass failure mechanisms, analysis and design approaches, and innovations in tunnel construction through digital tools are covered in 10 chapters. The references provided will be useful for further reading.

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 constructions; Environment sustainability in underground constructions; 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.

The key to the solution of geological hazards such as Karst water inrush and mud burst in tunnel lies in the accurate prediction or detection of Karst and groundwater. By means of on-site monitoring, theoretical analysis and indoor simulation experiments, the authors conduct in-depth research on the characteristics of water-bearing media and their mechanism of action, and explored the relevance of "Karst morphology", "Karst groundwater" and "fractal characteristics". An evaluation model of Karst development degree based on hydrochemical kinetic parameters and fractal index of Karst morphology is established. Based on the combination of Karst groundwater dynamics, hydrochemistry, water-rock interaction theory and fractal theory, the hydrochemical kinetics and fractal index evaluation technique for Karst development is proposed. It provides a new theory and method for improving the accuracy of Karst and groundwater forecasting. The research results are of practical and guiding significance to the construction, Karst geological disasters prevention and management of various underground projects in Karst areas. Engineers and technicians, hydrogeological engineering geologists, and college students engaged in tunnel and underground engineering will find it valuable.

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