

# Mechanised Shield Tunnelling Bernhard Maidl

Mechanised Shield Tunnelling Tunnel Construction Environment, Energy and Sustainable Development Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen Tunneling Die Bautechnik Tunnels and Tunnelling International Books in Print Maschinelles Tunnelbau im Schildvortrieb Tunnels & Tunnelling Engineering Index Annual Handbook of Tunnel Engineering II Deutsche Nationalbibliografie Glückauf The Engineering Index Felsbau The Consulting Engineer Road Abstracts Applied Science & Technology Index Tunnels and Tunnelling Bernhard Maidl Messe München International Wen-Pei Sung G. A. Cristy Clifford Alfred Pequignot Bernhard Maidl Bernhard Maidl Die deutsche Nationalbibliothek John Butler Johnson Frederick Ernest Dean

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mechanised shield tunnelling has developed considerably since the publication of the first edition of this book challenging tunnel projects under difficult conditions demand innovative solutions which has led to constant further development and innovation in process technology constructions operations and the machines and materials used the book collects the latest state of technology in mechanised shield tunnelling it describes the basics of mechanised tunnelling technology and the various types of machines and gives calculation methods and structural advice further chapters cover excavation tools muck handling tunnel support surveying and steering as well as workplace safety there is also detailed information about contractual

aspects and process controlling

each contribution in this volume looks at the tendencies of development in modern tunnel and cavern construction highlighting innovations of machine technology

environment energy and sustainable development brings together 242 peer reviewed papers presented at the 2013 international conference on frontiers of energy and environment engineering held in xiamen china november 28 29 2013 the main objective of this proceedings set is to take the environment energy developments discussion a step further volume 1 of the set is devoted to energy power and environmental engineering and volume 2 to control information and applications environment energy and sustainable development is intended to serve as resource material for scientists working on related topics in many disciplines including environmental science management science and energy science and policy analysis as well as for industry professionals in the wide field of energy and environmental engineering

der maschinelle schildvortrieb hat sich seit den ersten anfängen im jahre 1806 zu einer der bedeutendsten technologien des tunnelbaus entwickelt obwohl die derzeitige vorreiterrolle der japaner nicht verkennbar ist hat auch der entwicklungsstand in deutschland und europa wieder ein international beachtetes niveau erreicht das vorliegende werk dokumentiert die entwicklungsgeschichte des bauverfahrens vermittelt die grundlagen stellt die unterschiedlichen schildtypen sowie auskleidungen mit zugehörigen ausrüstungen und einsatzbereichen vor und gibt einblick in vertragswerke welche eine risikobeschränkung zwischen auftraggeber auftragnehmer und maschinenhersteller beinhalten zahlreiche projektdokumentationen nicht nur von großprojekten wie dem Ärmelkanaltunnel oder dem belt tunnel sondern auch von kleineren jedoch häufig ebenso interessanten projekten z b des u bahnbaus spiegeln den stand der technik problemfälle und innovative lösungsansätze wider das buch ist so aufbereitet daß der leser von den grundlagen des bauverfahrens über die wesentlichen funktionselemente der schilde zu den unterschiedlichen schildtypen geführt wird aus dem inhalt einföhrung setzungen und hohlraumstützung konstruktion und berechnungsansätze abbauwerkzeuge und abbauverfahren fördereinrichtungen tunnelsicherung schildschwanzdichtung verpreß und injektionsverfahren offene schilde druckluftschilde flüssigkeitsschilde erddruckschilde kombinierte schilde sonderschilde und sonderverfahren steuerbare verfahren für den mikrotunnelbau vermessung und steuerung arbeitssicherheit vertragliche gesichtspunkte ausschreibung und schildvergabe

literatur und stichwortverzeichnis

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 work 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 second volume covering both theoretical themes like design basics geological engineering structural design of tunnels and monitoring instrumentation and also the practical side of work on the construction site such as dewatering waterproofing and scheduling as well as questions of tendering award and contracts data management and process controlling as with volume i all chapters include practical examples

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