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Mechanised Shield Tunnelling



Mechanised Shield Tunnelling Bernhard Maidl

**Bernhard Maidl, Martin
Herrenknecht, Ulrich Maidl, Gerhard
Wehrmeyer**



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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. Mechanised Shield Tunnelling Bernhard Maidl, Martin Herrenknecht, Lothar Anheuser, 1996-12-16
Since its early beginnings in 1806, this type of tunnelling has become one of the most important techniques. While Japan's current pioneering role cannot be denied, the state of development in Europe has reached a high level of international recognition. This book explains the history of this construction method, outlining basic information and presenting the various types of shields and linings with the corresponding equipment and range of applications. It examines various projects including not only such large ones as the Channel or the Belt tunnel but also small, equally interesting projects such as underground railways. The problems involved as well as the technology used to confront them are fully described, and the text is structured in such a way that readers are led from the basics of this construction method via the essential functional elements of the shield machines and on to the different types of shields. The universality of the book is guaranteed by the three expert authors: a researcher, machine manufacturer and contractor respectively. Invaluable for current and future tunnelling projects and a must for all those working in the field. *Tunnel Construction* Messe München International, 1998-01-01
Each contribution in this volume looks at the tendencies of development in modern tunnel and cavern construction, highlighting innovations of machine technology. Handbook of Tunnel Engineering I Bernhard Maidl, Markus Thewes, Ulrich Maidl, 2013-10-04
Der Ingenieurtunnelbau ist einer der interessantesten aber auch schwierigsten Ingenieurdisziplinen und erfordert theoretische Kenntnisse und praktische Erfahrung in Geologie, Geomechanik, Statik, Massivbau, Maschinentechnik, Bauverfahrenstechnik und Baumanagement. Das zweibändige Handbuch des Tunnel- und Stollenbaus gilt seit 30 Jahren in der deutschsprachigen Fachwelt als Standardwerk für Lehre und Praxis. Die vorliegende englische Ausgabe basiert auf einer bearbeiteten und angepassten Fassung der dritten deutschen Auflage und ist auf dem heutigen Stand der Kenntnisse. Das Buch erscheint in zwei Bänden, wobei sich der erste Band den mehr praktischen Themen von Konstruktion und Bauverfahren im Sprengvortrieb und maschinellen Vortrieb widmet. Der zweite Band widmet sich sowohl theoretischen Themen wie Planungsgrundsätzen als auch praktischen Belangen der Baustellenabwicklung sowie Fragen der Ausschreibung, Vergabe und Vertrag. Hardrock Tunnel Boring Machines

Bernhard Maidl, Leonhard Schmid, Willy Ritz, Martin Herrenknecht, 2008-05-27 This book covers the fundamentals of tunneling machine technology drilling tunneling waste removal and securing It treats methods of rock classification for the machinery concerned as well as legal issues using numerous example projects to reflect the state of technology as well as problematic cases and solutions The work is structured such that readers are led from the basics via the main functional elements of tunneling machinery to the different types of machine together with their areas of application and equipment The result is an overview of current developments Close cooperation among the authors involved has created a book of equal interest to experienced tunnelers and newcomers Handbook of Tunnel Engineering II Bernhard Maidl, Markus Thewes, Ulrich Maidl, 2014-01-22 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 *International Books in Print* ,1990 **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen** ,1996 **Glückauf** ,1985 **DEVELOPMENT AND FUTURE TRENDS OF SHIELD TUNNELLING** ,1981 Machine-technical challenges in tunnelling. Maschinelle Herausforderungen im Tunnel- und Stollenbau Bernhard Maidl, 1995

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