

# Tunnel Lining Design Guide

**Daniele Peila, Giulia Viggiani, Tarcisio  
Celestino**



## **Tunnel Lining Design Guide:**

**Tunnel Lining Design Guide** British Tunnelling Society, Institution of Civil Engineers (Great Britain), 2004 Of geotechnical and geophysical properties 160 10 3 4 Design of tunnel linings 1 61 10 4 Instrumentation of the CTRL North Downs Tunnel 164 10 5 References 165 Appendix I Abbreviations and symbols 166 Appendix 2 Risk management 168 A21 Introduction 168 A2 2 Scope 168 A23 Risk register 169 A21 1 When to use the risk register 169 A2 32 What is it 169 A2 3 3 Assessment process 169 A2 3 4 Key steps 169 A2 3 5 Risk assessment qualitative or quantitative 171 A2 3 6 Ranking risk 175 A2 4 References 17 *Tunnel Lining Design Guide* British Tunnelling Society Staff, 2004 This is a reference to the recommended standards and rules applicable to formulation for bored tunnels and shafts in any type of ground condition It is also a useful resource for those involved in the procurement operation or maintenance of tunnels or those seeking to acquire data for use in production

**Guidelines for Tunnel Lining Design** ASCE Technical Council on Research. Technical Committee on Tunnel Lining Design, 1984 [Handbook of Precast Segmental Tunnel Lining Systems](#) Verrya Nasri, David Klug, Brian Fulcher, James A. Morrison, 2024-07-31 This comprehensive handbook covers all aspects of design production and construction of precast concrete tunnel segmental lining with the best practices in the field included in one book for the first time New and current design methods and quantitative analyses are considered in line with ACI and ASTM codes as well as a full selection of global standards for the reliable design of the product and all components Also incorporated are new applications of science and technology such as new admixtures and the latest manufacturing processes and precisions such as tight dimensional controls and high repeatability cycles With detailed guidance from world leading practitioners this is the definitive international technical and practical manual on these linings forming a one stop reference for tunnel engineers and an invaluable resource for advanced students in civil mechanical and mining engineering

**Sprayed Concrete Linings (NATM) for Tunnels in Soft Ground**, 1996 This guide considers the implications of the use of sprayed concrete support methods in soft ground in urban areas and provides guidance on how the associated risks of this method can be minimised

[Practical Guide to Rock Tunneling](#) Dean Brox, 2017-04-11 This Practical Guide to Rock Tunneling fills an important void in the literature for a practical guide to the design and construction of tunnels in rock Practical Guide to Rock Tunneling takes the reader through all the critical steps of the design and construction for rock tunnels starting from geotechnical site investigations through to construction supervision The guide provides suggestions and recommendations for practitioners on special topics of laboratory testing durability of rock and acceptance for unlined water conveyance tunnels overstressing or deep and long tunnels risk based evaluation of excavation methods contract strategies and post construction inspections Key considerations and lessons learned from selected case projects are presented based on the author's extensive international experience of over 30 years and 1000 km of tunneling for civil hydropower and mining infrastructure including some of the most recognized projects in the world to date Instead of revisiting all theory and concepts that can be found in other sources

this book contains the hard learned lessons from the author s experience in the field of Rock Tunneling gathered over 30 years of service     *North American Tunneling 2022 Proceedings* Paul Madsen,Matthew Crow,Louis Falco,Amanda Morgan,Kathy Murtagh,2022-06-03 Your timely source for more cost effective and less disruptive solutions to your underground infrastructure needs The North American Tunneling Conference is the premier biennial tunneling event for North America bringing together the brightest most resourceful and innovative minds in the tunneling industry It underscores the important role that the industry plans in the development of underground spaces transportation and conveyance systems and other forms of sustainable underground infrastructure With every conference the number of attendees and breadth of topics grows The authors expert and leaders in the industry share the latest case histories expertise lessons learned and real world applications from around the globe Crafted from a collection of 92 papers presented at the conference this book takes you deep inside the projects It includes sections on technology planning design and case histories

**Tunnelling into a Sustainable Future - Methods and Technologies** Fredrik Johansson,Anders Ansell,Daniel Johansson,Johan Funehag,Jenny Norrman,2025-05-12 Tunnelling into a Sustainable Future Methods and Technologies contains the contributions presented at the ITA AITES World Tunnel Congress 2025 Stockholm Sweden 9 15 May 2025 The contributions cover a wide range of topics in the fields of tunnelling and underground engineering including 1 Innovating tunneling 2 Safety Underground 3 Use of underground space 4 Investigations and ground characterisation 5 Planning and design of underground space 6 Conventional tunnelling 7 Mechanised tunnelling 8 Complex geometries including shafts and ramps 9 Grouting and groundwater control 10 Instrumentation and monitoring 11 Operation inspection and maintenance 12 Contractual aspects financing and risk management 13 Impact from climate change Tunnelling into a Sustainable Future Methods and Technologies will serve as a valuable reference to all concerned with tunnelling and underground engineering including students researchers and engineers     **Tunnel Engineering Handbook** Thomas R. Kuesel,Elwyn H. King,John O. Bickel,2012-12-06 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

**Sprayed Concrete Lined Tunnels** Alun Thomas, 2019-08-20 Sprayed concrete lined SCL tunnels are growing rapidly in popularity due to their versatility The design and construction of both hard rock and soft ground tunnels has been revolutionised by the advent of the SCL method and now the use of permanent sprayed concrete linings has unlocked the true potential of the method to minimise construction costs and times Yet the complex early age behaviour of the sprayed concrete makes the design difficult and requires a robust management system during construction Consequently the great advantages of the method must be balanced against the risks as a few high profile tunnel collapses have illustrated Practising engineers on site in the design office or in client organizations will find this book an excellent introduction It covers all aspects of SCL tunnelling from the constituents of sprayed concrete to detailed design and management during construction Although there is a close interdependence between all the facets of sprayed concrete few engineers have the right breadth of experience and expertise to cover all of them This urgently needs to be transferred to the wider engineering community as SCL tunnels play an increasingly important role in the delivery of the underground infrastructure which modern urban life demands In this second edition beyond a general updating to reflect new developments the sections on permanent sprayed concrete the innovative technology of spray applied waterproofing membranes fibre reinforcement both steel and macrosynthetic and composite lining design have been expanded Sustainability and environmental impact are addressed in a new section

*Introduction to Tunnel Construction* David N. Chapman, Nicole Metje, Alfred Stark, 2017-11-27 Tunnelling provides a robust solution to a variety of engineering challenges It is a complex process which requires a firm understanding of the ground conditions as well as the importance of ground structure interaction This book covers the full range of areas related to tunnel construction required to embark upon a career in tunnelling It also includes a number of case studies related to real tunnel projects to demonstrate how the theory applies in practice New features of this second edition include the introduction of a case study related to Crossrail s project in London focussing on the Whitechapel and Liverpool Street station tunnels and including considerations of building tunnels in a congested urban area and further information on recent developments in tunnel boring machines including further examples of all the different types of machine as well as multi mode machines The coverage includes Both hard rock and soft ground conditions Site investigation parameter selection and design considerations Methods of improving the stability of the ground and lining techniques Descriptions of the various main tunnelling techniques Health and safety considerations Monitoring of tunnels during construction Description of the latest tunnel boring machines Case studies with real examples including Crossrail s project in London Clear concise and heavily illustrated this is a vital text for final year undergraduate

and MSc students and an invaluable starting point for young professionals and novices in tunnelling      *Introduction to Tunnel Construction* David Chapman, Nicole Metje, Alfred Stärk, 2017-12-21 Tunnelling provides a robust solution to a variety of engineering challenges It is a complex process which requires a firm understanding of the ground conditions as well as structural issues This book covers the whole range of areas that you need to know in order to embark upon a career in tunnelling It also includes a number of case studies of real tunnel projects to demonstrate how the theory applies in practice The coverage includes Both hard rock and soft ground conditions Site investigation parameter selection and design considerations Methods of improving the stability of the ground and lining techniques Descriptions of the various tunnelling techniques Health and safety considerations Monitoring of tunnels during construction Clear concise and heavily illustrated this is a vital text for final year undergraduate and MSc students and an invaluable starting point for young professionals

**Advances in Communication, Devices and Networking** Sourav Dhar, Dinh-Thuan Do, Samarendra Nath Sur, Chuan-Ming Liu, 2023-07-07 This book covers recent trends in the field of devices wireless communication and networking It gathers selected papers presented at the 6th International Conference on Communication Devices and Networking ICCDN 2022 which was organized by the Department of Electronics and Communication Engineering Sikkim Manipal Institute of Technology Sikkim India on December 16 17 2022 Gathering cutting edge research papers prepared by researchers engineers and industry professionals it helps young and experienced scientists and developers alike to explore new perspectives and offer them inspirations on how to address real world problems in the areas of electronics communication devices and networking      **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. The Way to the Future** Georg Anagnostou, Heinz Ehrbar, 2013-05-20 Underground the way to the future was the motto of the World Tunnel Congress 2013 in Geneva Switzerland The use of underground space has gained importance during the last years due to the tremendous global urbanization the high demand on transportation capacities and energy production All this result in a wider range of use of underground space besides the traditional road railway metro and utility tunnels more and more other functionalities of modern life are placed under ground in order to free the surface for other uses The 300 papers of the present book cover important aspects of modern underground infrastructures Development and use of underground space project planning and implementation construction management risk control cost estimation and scheduling contracting practices design and analysis methods and considerations construction technology developments tunnel operation safety maintenance rehabilitation and repair case histories learning from failures long deep tunnels underground construction for hydropower Underground the way to the future will be invaluable to specialists contractors and design engineers in underground planning construction and tunnelling worldwide and to academics interested in underground and geotechnical engineering

Proceedings of the 5th International Conference on Geotechnics for Sustainable Infrastructure Development Phung Duc Long, Nguyen Tien Dung, 2024-07-10 This book presents 204 peer reviewed articles from the 5th International Conference on Geotechnics for Sustainable Infrastructure Development GEOTEC HANOI 2023 held on 14 15 Dec 2023 in Hanoi Vietnam The papers come from nearly 40 countries of the five different continents and are grouped into six conference themes 1 Deep Foundations 2 Tunnelling and Underground Spaces 3 Ground Improvement 4 Landslide and Erosion 5 Geotechnical Modelling and Monitoring and 6 Offshore Wind Power

**North American Tunneling: 2014 Proceedings** Davidson, Gregg, Howard, Alan, Jacobs, Lonnie, Pintabona, Robert, Zernich, Brett, 2014-06-17 The North American Tunneling Conference is the premier forum to discuss new trends and developments in underground construction in North America With every conference the number of attendees and breadth of topics grows North American Tunneling 2014 Proceedings reflects the theme for the 2014 conference Mission Possible The authors share new theories novel innovations and the latest

tools that make what once may have been perceived as impossible now possible The authors of 128 papers share the latest case histories expertise lessons learned and real world applications from around the globe on a wide range of topics They cover the successes and failures of challenging construction projects Read about challenging design issues fresh approaches on performance future projects and industry trends as well as ground movement and support structure analysis risk and cost management rock tunnels caverns and shafts TBM technology and selection and water and wastewater conveyance

Carbon Emission Calculation Methods for Highway Tunnel Construction Chun Guo,Jianfeng Xu,2021-09-01 This book introduces the research background and significance of carbon emissions in the tunnel industry and systematically reviewed the research progresses of carbon emission researches for tunnels LCA life cycle assessment research framework and uncertainty research progress The authors propose a novel modular carbon emission calculation method for highway tunnel construction and expounds on the modular LCA system boundary theory of tunnel construction This method does not require abundant knowledge of LCA modeling which is convenient for general engineering and technical personnel to calculate the carbon emission level of tunnel construction The calculation formulas for input and carbon emissions of each module are provided It also analyzes the parameter uncertainty model uncertainty and scenario uncertainty of the carbon emissions from tunnel construction by the Monte Carlo method Further this book proposes the fitting model of carbon emissions of unit engineering quantity in tunnel construction which benefits to simplify the calculation of carbon emissions This book is mainly aimed at engineering and technical personnel in the construction industry especially tunnel and underground engineering including tunnel design engineers tunnel construction engineers experts and scholars tunnel owners management departments

North American Tunneling 2018 Proceedings Alan Howard,Brett Campbell,Derek Penrice,Matthew Preedy,Jim Rush,2018-06-24 Your timely source for more cost effective and less disruptive solutions to your underground infrastructure needs The North American Tunneling Conference is the premier biennial tunneling event for North America bringing together the brightest most resourceful and innovative minds in the tunneling industry It underscores the important role that the industry plays in the development of underground spaces transportation and conveyance systems and other forms of sustainable underground infrastructure With every conference the number of attendees and breadth of topics grow The authors experts and leaders in the industry share the latest case histories expertise lessons learned and real world applications from around the globe Crafted from a collection of 126 papers presented at the conference this book takes you deep inside the projects It includes challenging design issues fresh approaches on performance future projects and industry trends as well as ground movement and support structure analysis risk and cost management rock tunnels caverns and shafts TBM technology and water and wastewater conveyance

*Fibre-reinforced concrete:From design to structural applications* FIB - Féd. Int. du Béton,2016 The FRC 2014 Workshop Fibre Reinforced Concrete from Design to Structural Applications was the first ACI fib joint technical event The Workshop held at Polytechnique Montreal Canada on July 24th and 25th 2014 was



attended by 116 participants from 25 countries and 4 continents The first international FRC workshop was held in Bergamo Italy in 2004 At that time the lack of specific building codes and standards was identified as the main inhibitor to the application of this technology in engineering practice Ten years after Bergamo many of the objectives identified at that time have been achieved The use of fibre reinforced concrete FRC for designing structural members in bending and shear has recently been addressed in the fib Model Code 2010 Steel fibre reinforced concrete SFRC has also been used structurally in several building and bridge projects in Europe and North America SFRC has been widely used in segmental tunnel linings all over the world Members of ACI544 and fib TG 4.1 have been involved in writing code based specifications for the design of FRC structural members More than fifty papers were presented at the Workshop from which forty four were selected for this joint ACI fib publication The papers are organised in the document under six themes Design guidelines and specifications Material properties for design Behaviour and design of beams and columns Behaviour and design of slabs and other structures Behaviour and design of foundations and underground components and finally Applications in structure and underground construction projects

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