



# Introduction to Tunnel Construction (Applied Geotechnics)

By David Chapman, Nicole Metje, Alfred Stärk

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**Introduction to Tunnel Construction (Applied Geotechnics)** By David Chapman, Nicole Metje, Alfred Stärk

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.

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### Editorial Review

#### Review

Invaluable to recently graduated engineers and university students ... A comprehensive work that could well become the standard introductory text for early stage tunnellers, and could attract more engineers into tunnelling. As such, it should be heavily promoted.

*?World Tunnelling*

#### About the Author

**David Chapman** is Reader in Geotechnical Engineering at the University of Birmingham, UK.

**Nicole Metje** is a Lecturer at the University of Birmingham, UK.

**Alfred Stärk** is a Senior Tunnelling Manager with the tunnelling contractor ALPINE BeMo Tunnelling GmbH in Innsbruck, Austria.

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