



# 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:

1. Both hard-rock and soft-ground conditions
2. Site investigation, parameter selection, and design considerations
3. Methods of improving the stability of the ground and lining techniques
4. Descriptions of the various tunnelling techniques
5. Health and safety considerations
6. 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.

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

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