



Introduction to Tunnel Construction (Applied Geotechnics)

David Chapman, Nicole Metje, Alfred Stärk

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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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