



Groundwater Lowering in Construction: A Practical Guide to Dewatering, Second Edition (Applied Geotechnics)

Martin Preene

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Linking theory and application in a way that is clear and understandable, **Groundwater Lowering in Construction: A Practical Guide to Dewatering, Second Edition** uses the authors' extensive engineering experience to offer practical guidance on the planning, design, and implementation of groundwater control systems under real conditions.

Discover engineering methods that can help you improve working conditions, increase project viability, and reduce excavation *costs*.

In the decade since publication of this book's first edition, groundwater lowering and dewatering activities have been increasingly integrated into the wider ground engineering schemes on major excavations to help provide stable and workable conditions for construction below groundwater level. Consequently, many engineering ventures now require a more in-depth assessment of potential environmental impacts of dewatering and groundwater control, and this book details the latest best practices to evaluate and address them.

Includes New Chapters Covering:

- Cutoff methods used for groundwater exclusion
- Issues associated with permanent or long-term groundwater control systems

- Groundwater control technologies used on contaminated sites
- Methods needed to understand, predict, and mitigate potential environmental impacts of groundwater control works

Updated to reflect the crucial technological and application advances shaping construction processes, this book contains valuable direction that can give you a true competitive advantage in the planning and execution of temporary and permanent dewatering works. The authors cover cutting-edge methods and key subjects, such as the history of dewatering, working on contaminated sites, site investigation techniques, and operation and maintenance issues, including health, safety, and legal aspects. Written for practising engineers and geologists as well as postgraduate engineering students, this updated manual on design and practice provides numerous case histories and extensive references to enhance understanding.

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