



Trenchless Technology: Planning, Equipment, and Methods (Mechanical Engineering)

By Mohammad Najafi

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Trenchless Technology: Planning, Equipment, and Methods (Mechanical Engineering) By Mohammad Najafi

The complete guide to trenchless technology project management, planning, costs, and methods

Written by an expert in the field of pipeline system engineering, this book describes how to plan, schedule, and implement efficient, cost-effective trenchless technology piping projects. Filled with detailed illustrations and real-world examples, *Trenchless Technology: Planning, Equipment, and Methods* explains how to accurately compare the costs of trenchless projects, considering geotechnical and rock mass impacts, drilling fluids, and locating and tracking equipment.

This in-depth reference provides important information on how to estimate the cost of labor and equipment and schedule trenchless piping projects. A wide range of trenchless technology methods suitable for various ground and project conditions are discussed in this practical resource.

Coverage includes:

- Cost comparison of trenchless technology methods
- Planning for trenchless technology projects
- Project delivery methods
- Geotechnical considerations
- Rock mass properties impacts on trenchless project feasibility
- Tracking, locating, and planning tools for horizontal directional drilling
- Drilling and lubricating fluids
- Planning and construction requirements for horizontal direction drilling
- Horizontal auger boring
- Pipe ramming
- Microtunneling methods
- Pilot tube (or pilot tube microtunneling) method
- Pipe/box jacking and utility tunneling
- Cured-in-place-pipe method

- Sliplining
- Lateral renewal
- Localized repair
- Planning and construction requirements for pipe bursting
- Panel linings
- Spray-in-place pipe

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- Sales Rank: #2242237 in eBooks
- Published on: 2012-12-06
- Released on: 2012-12-06
- Format: Kindle eBook



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Editorial Review

About the Author

Mohammad Najafi, Ph.D., P.E, is the Director of the Center for Underground Infrastructure Research and Education (CUIRE) and Director of Construction and Infrastructure Engineering and Management at the Department of Civil Engineering at The University of Texas at Arlington. He is Founder and Chief Editor of the ASCE Journal of Pipeline Systems Engineering and Practice and author of the Trenchless Technology: Pipeline and Utility Design, Construction, and Renewal, and Trenchless Technology Piping: Installation and Inspection both by McGraw-Hill. He lives in Arlington, Texas.

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