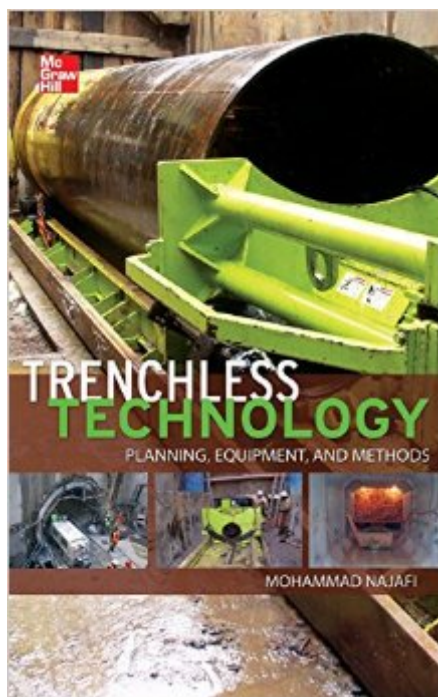


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# Trenchless Technology: Planning, Equipment, And Methods



## Synopsis

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

## Book Information

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## Customer Reviews

Trenchless technology is an essential technology, capable of installing or restoring utility lines belowground, with a minimum of surface disruption. Dr. Najafi is one of the outstanding experts in this field and has dedicated himself to educating the construction industry, as well as local governments, to the benefits of this construction method. "Trenchless Technology -- Planning, Equipment, and Methods" is the latest in a series of references by Dr. Najafi to help support this technology, thereby helping ensure its successful application. This latest book focuses on the proper planning, without which the projects are unlikely to succeed. The book is highly recommended for engineers, teachers, interested students, inspectors, and relevant government officials.

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