



# TRENCHLESS TECHNOLOGY PIPING: INSTALLATION AND INSPECTION (Mechanical Engineering)

By Mohammad Najafi

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## TRENCHLESS TECHNOLOGY PIPING: INSTALLATION AND INSPECTION (Mechanical Engineering) By Mohammad Najafi

### Design, Install, Inspect, and Manage Trenchless Technology Piping Projects

*Trenchless Technology Piping* offers comprehensive coverage of pipe installation, renewal, and replacement using trenchless technology methods. This step-by-step resource explains how to implement efficient design, construction, and inspection processes and shows how to save time and money with a state-of-the-art project management system.

Packed with detailed illustrations, the book surveys the wide variety of trenchless technologies available and discusses the recommended applications for each. This cutting-edge engineering tool also contains vital information on contracting, project delivery, safety, quality control, and quality assurance.

#### COVERAGE INCLUDES:

- Trenchless technology methods for new pipe installations and old pipe linings and replacements
- Pipeline planning and design
- Pipe behavior under soil and traffic loads
- Details on different types of pipes, such as concrete, plastic, PVC, HDPE, GRP, and metallic
- Design and project management considerations for horizontal directional drilling (HDD)
- Trenchless replacement systems, including pipe bursting and pipe removal methods
- Construction and inspection requirements for cured-in-place pipe (CIPP)
- Design and construction considerations for pipe jacking and microtunneling methods
- Quality assurance, quality control, inspection, and safety

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### **Editorial Review**

#### **About the Author**

Mohammad Najafi, Ph.D., P.E., is an Assistant Professor, Coordinator of Construction Engineering and Management, and Director of the Center for Underground Infrastructure Research and Education (CUIRE) in the Department of Civil Engineering at the University of Texas at Arlington. He is Pipeline Editor of the ASCE Journal of Transportation Engineering and author of *McGraw-Hill's Trenchless Technology: Pipeline and Utility Design, Construction, and Renewal*.

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