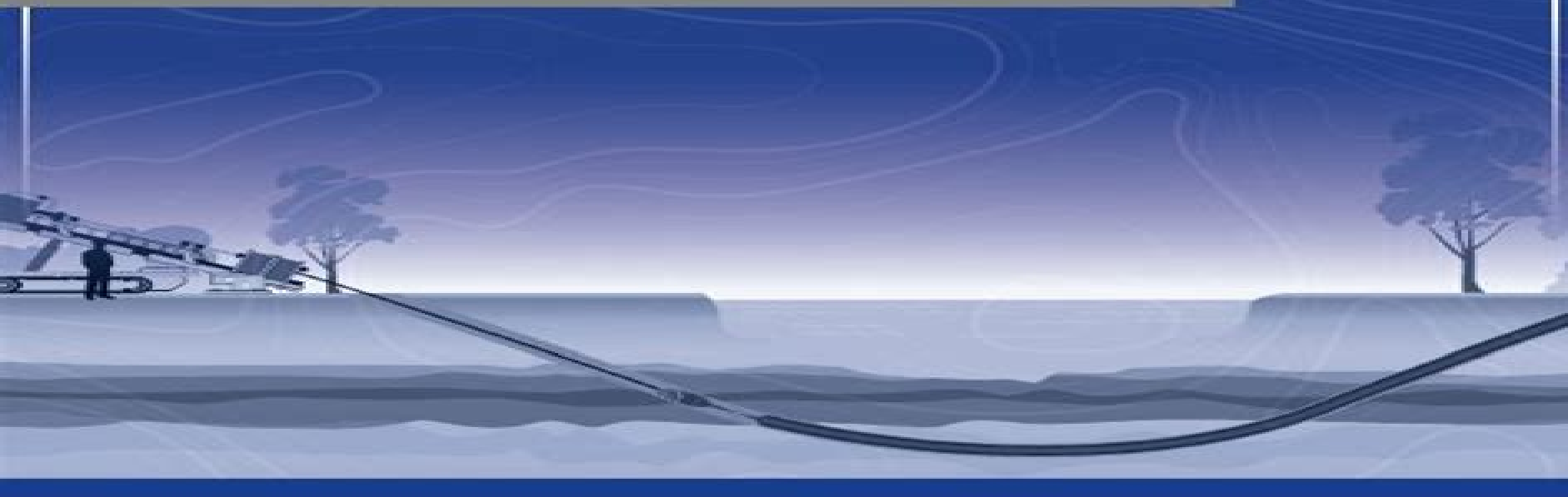




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**GOOD PRACTICES GUIDELINES**



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**Fifth Edition**

# Nastt Hdd Good Practices Guidelines Manual

**Mohammad Najafi**



## **Nastt Hdd Good Practices Guidelines Manual:**

Trenchless Technology : Pipeline and Utility Design, Construction, and Renewal Mohammad Najafi, 2004-12-27

Trenchless technology allows for the installation or renewal of underground utility systems with minimum disruption of the surface. As water and wastewater systems age or must be redesigned in order to comply with environmental regulations, the demand for this technology has dramatically increased. This is a detailed reference covering construction details, design guidelines, environmental concerns, and the latest advances in equipment, methods, and materials. Design and analysis procedures, Design equations, Risk assessment, Soil compatibility, and more.

Trenchless Technology: Planning, Equipment, and Methods Mohammad Najafi, 2013-01-18. 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 detailed 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; Sliplining; Lateral renewal; Localized repair; Planning and construction requirements for pipe bursting; Panel linings; Spray in place pipe.

**Trenchless Technology: Pipeline and Utility Design, Construction, and Renewal, Second Edition** Mohammad Najafi, Sanjiv Gokhale, 2021-10-22. A fully updated guide to no-dig engineering. This thoroughly revised reference covers the latest techniques and materials for high-demand trenchless technology in underground projects. The book offers complete details on new tools, techniques, and analysis methods that can save you thousands of dollars in costs and weeks of surface disruptions. Written by recognized experts in the field, *Trenchless Technology: Pipeline and Utility Design, Construction and Renewal, Second Edition* offers clear explanations of the various trenchless technologies available, from pipe ramming, microtunneling, horizontal auger boring, horizontal directional drilling, pilot tube direct pipe to cured in place pipe, spray applied pipe lining, pipe replacement, bursting, and sliplining. Readers will get complete instruction on how to choose the best method for the project at hand. Refreshed throughout to reflect current tools, techniques, and regulations, it explains pipe materials, social and environmental costs, pipe jacking, pipeline, and pipeline renewal with reference to NASSCO and ASTM.

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