

1. Record Nr.	UNINA9910463788803321
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Titolo	Practical guide to grouting of underground structures / / Raymond W. Henn
Pubbl/distr/stampa	New York, New York : , : ASCE Press London : , : Thomas Telford Publications, , [1996] ©1996
ISBN	0-7844-7355-2
Descrizione fisica	1 online resource (200 p.)
Disciplina	624.1/9
Soggetti	Underground construction Grouting Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (pages [183]-186) and index.
Nota di contenuto	<p>""Cover""; ""Contents""; ""Preface""; ""1. Introduction""; ""Purpose""; ""Scope""; ""2. Grouting Methods""; ""2.1 Grouting in Soil""; ""2.1.1 Jet Grouting""; ""2.1.2 Compaction Grouting""; ""2.1.3 Permeation Grouting""; ""2.1.4 Hydrofracture Grouting""; ""2.2 Grouting in Rock""; ""2.2.1 Consolidation Grouting""; ""2.2.2 Curtain Grouting""; ""2.3 Structural Grouting""; ""2.3.1 Contact Grouting""; ""2.3.2 Embedment Grouting""; ""2.3.3 Prestressing""; ""2.3.4 Cellular Concrete""; ""2.4 Shaft Grouting""; ""2.4.1 Pregrouting of Shaft from Ground Surface""; ""2.4.2 In-Shaft Grouting""</p> <p>""2.5 Probing and Grouting ahead of Tunnel and Chamber Excavations""""2.5.1 Probe Holes""; ""2.5.2 Grouting ahead of Excavations""; ""3. Geotechnical Considerations in Grouting Program Planning""; ""3.1 Basic Considerations""; ""3.2 Geotechnical Investigation and Geotechnical Design Summary""; ""3.3 Grouting to Limit Groundwater Infiltration""; ""3.4 Grouting to Increase Stability""; ""3.5 Grouting to Increase Strength""; ""3.6 Groutability Ratio""; ""3.7 Other Geotechnical Considerations""; ""4. Equipment""; ""4.1 Drills""; ""4.1.1 Percussion Drilling""; ""4.1.2 Rotary Drilling""</p> <p>""4.1.3 Down-Hole-Drill (Down-Hole-Hammer) Drilling""""4.2 Mixers"";</p>

""4.3 Agitators""; ""4.4 Water Meters""; ""4.5 Pumps""; ""4.6 Pressure Gauges""; ""4.7 Gauge Savers""; ""4.8 Packers""; ""4.9 Nipples""; ""4.10 Delivery and Distribution System""; ""4.11 Data Acquisition and Recording Equipment""; ""4.12 Automated Batching Systems""; ""4.13 Grouting Jumbos""; ""4.14 Equipment Configuration""; ""5. Grouting Materials""; ""5.1 Portland Cement""; ""5.2 Ultrafine Cement""; ""5.3 Sand""; ""5.4 Admixtures""; ""5.4.1 Dispersants""; ""5.4.2 Accelerators""; ""5.4.3 Gas-Producing Agents""
""5.5 Water""""5.6 Bentonite""; ""6. Specifications""; ""6.1 Applicable ASTM's and Other Standards""; ""6.2 Developing Grouting Specifications""; ""7. Grout Hole Layout""; ""7.1 Grout Hole and Grout Ring Spacing""; ""7.1.1 Contact Grouting""; ""7.1.2 Consolidation Grouting""; ""7.1.3 Curtain Grouting""; ""7.2 Hole Depth and Diameter""; ""8. Grout Placement Operations""; ""8.1 Proportioning""; ""8.1.1 WaterCement Ratios""; ""8.1.2 Sand""; ""8.1.3 Admixtures""; ""8.1.4 Bentonite""; ""8.2 Delivery Pressure""; ""8.3 Refusal Criteria""; ""8.4 Crew Size and Organization""; ""8.5 Production""
""8.6 Safety and Environmental Issues""""8.6.1 Personnel Safety""; ""8.6.2 Waste Disposal""; ""9. Field Quality Control""; ""9.1 Preconstruction Checklists""; ""9.2 Certifications and Test Reports""; ""9.3 Inspection Reports""; ""9.3.1 Drilling Reports""; ""9.3.2 Grouting Reports""; ""9.4 Testing""; ""9.4.1 Laboratory Testing""; ""9.4.2 Field Testing""; ""10. Chemical Grouting""; ""10.1 Applications""; ""10.2 Types of Chemical Grouts""; ""10.3 Equipment""; ""10.3.1 Batching Equipment""; ""10.3.2 Injection Equipment""; ""10.4 Design of a Chemical Grouting Program""
""10.4.1 Groutability of the Ground""
