

1. Record Nr.	UNINA9910439033703321
Titolo	Applied surface science advances
Pubbl/distr/stampa	Amsterdam : , : Elsevier B.V., , 2020-
ISSN	2666-5239
Descrizione fisica	1 online resource
Soggetti	Surfaces (Technology) Surfaces (Physics) Interfaces (Physical sciences) Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	"An Open Access Journal Devoted to the Physics and Chemistry of Surfaces and Interfaces" Refereed/Peer-reviewed

2. Record Nr.	UNINA9911006547203321
Autore	Hegebarth Donald C. <1937->
Titolo	Grouting equipment manual : selection, operation, maintenance, and repair // by Donald C. Hegebarth
Pubbl/distr/stampa	Englewood, Colo., : Society for Mining, Metallurgy, and Exploration, [2013]
ISBN	1-62198-761-2 0-87335-368-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (137 p.)
Disciplina	666/.9
Soggetti	Grout (Mortar) Grouting (Soil stabilization) - Materials Sealing (Technology) - Materials Construction equipment - Maintenance and repair
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 and index.
Nota di contenuto	FrontCover; Title Page; Copyright; Contents; List of Figures; List of Tables; Foreword; Preface; CHAPTER 1: Safety Considerations; ELECTRICALLY POWERED EQUIPMENT; ENGINE-POWERED EQUIPMENT; PNEUMATICALLY POWERED EQUIPMENT; CLEANLINESS; CHAPTER 2: Cement Grouts; SLURRY GROUTS; SANDED GROUTS; PRE-BLENDED, SANDED GROUTS; CHAPTER 3: Mixers; PADDLE MIXERS; Agitators; Maintenance and Repair; "COLLOIDAL" MIXERS; Maintenance and Repair; RIBBON BLENDERS; Maintenance and Repair; CONTINUOUS MIXERS; Maintenance and Repair; CHAPTER 4: Pumps; RECIPROCATING PUMPS; Piston and Plunger Pumps; ROTARY PUMPS Model NumbersMaintenance and Repair; Centrifugal Pumps; CHAPTER 5: Power Options; ELECTRICALLY POWERED EQUIPMENT; Maintenance and Repair; ENGINE-POWERED EQUIPMENT; PNEUMATICALLY POWERED EQUIPMENT; Pneumatic Cylinders; Air Motors; Radial Piston Air Motors; Air Line Lubricators; CHAPTER 6: Power Transmission; GEARBOXES; Maintenance; Repair; SHEAVES AND BELTS; Sheave Selection; Determining Belt Length; Maintenance; HYDRAULICS; Reservoirs; Pumps; Motors; Valves; Hydraulic Fluid; CHAPTER 7: Grout Delivery Systems; FLOW RATES AND CONDUIT DIAMETER; GROUT HOSE;

Sommario/riassunto

Pressure grouting is an essential construction procedure that is practiced by contractors and engineers around the world. Used since the 19th century, grouting reduces the amount of leakage through rock for dam foundations and underground works. It also strengthens soils to provide a stable foundation to support the weight of surface structures, such as buildings, bridges, and storage tanks. In addition, it is frequently used to repair deteriorated concrete and to produce concrete underwater. This manual introduces various types of equipment employed in pressure grouting applications performed in geotechnical works and examines the operating principles and maintenance issues relative to each equipment type. The term pressure grouting encompasses a wide variety of applications and operations, including dam foundation grouting, soil stabilization and permeation, consolidation and compaction grouting (except low-mobility), water cutoff and structural stabilization in rock tunnels, deep foundations via drilled piers, underwater concrete, structural concrete repairs, raising of settled slabs and structures, rock and soil anchors, and machine foundations and bases. The applications for pressure grouting operations are almost limitless, as the equipment can be employed anywhere fluid grout can be used. Primarily intended for machine operators and maintenance mechanics, this manual will also prove useful to specification writers, engineers, contractors, purchasing managers, and others who have a responsibility to specify, acquire, operate, or maintain pressure grouting equipment. Topics covered include mixers, agitators, pumps, delivery systems and accessories, but not electronic monitoring and other ancillary equipment.
