1. Record Nr. UNISA996390316403316

Autore	Inchiquin Murrough O'Brien, Earl of, <1614-1674.>
Titolo	A true copy of a letter, sent from the Lord of Inchiquine to the honorable Colonell Michaell Iones [[electronic resource]] : commander in chiefe of the Parliaments forces in Leinster, and governor of the citty of Dublin, vvith Colonell Iones his answer, to the Lord of Inchiquines saied letter
Pubbl/distr/stampa	Dublin, : printed by William Bladen, 1649
Descrizione fisica	[8] p
Altri autori (Persone)	JonesMichael <d. 1649.>
Soggetti	Ireland History 1649-1660 Early works to 1800
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Signatures: A. Jones's letter is dated: Dublin Iune 21th 1649. In this edition, line 4 ends "Colo-". Reproduction of the original in the British Library.
Sommario/riassunto	eebo-0018

2. Record Nr. UNINA9910830468003321

Titolo	Drilling in extreme environments [[electronic resource]] : penetration and sampling on Earth and other planets / / edited by Yoseph Bar-Cohen & Kris Zacny
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, 2009
ISBN	1-282-27913-0 9786612279133 3-527-62662-X 3-527-62663-8
Descrizione fisica	1 online resource (825 p.)
Altri autori (Persone)	Bar-CohenYoseph ZacnyKris
Disciplina	622.1 622.3381
Soggetti	Boring Boring - Technological innovations Oil well drilling Oil well drilling - Technological innovations Astrogeology Space robotics
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	Drilling in Extreme Environments: Penetration and Sampling on Earth and other Planets; Foreword; Contents; Preface; List of Contributors; Acknowledgments; Color Plates; 1 Drills as Tools for Media Penetration and Sampling; 1.1 Introduction and Historical Perspective; 1.2 Methods of Drilling and Penetration of Objects; 1.2.1 Mechanical Techniques; 1.2.2 Thermal Techniques; 1.2.3 Chemical Techniques; 1.3 Types of Mechanical Drills; 1.3.1 Rotary Drill; 1.3.2 Hammer Drill; 1.3.3 Rotary-Hammer Drill; 1.4 Bits - the End-Effector of Drills; 1.4.1 Twist Drill Bits; 1.4.2 Gun Drill 1.4.3 Centering and Spotting Drill Bits1.4.4 Material Makeup of Bits; 1.5 Application of Drilling Techniques; 1.5.1 Geological Studies and Search

for Resources; 1.5.2 Mining and Tunneling; 1.5.3 Petroleum and Gas Drilling and Exploration; 1.5.4 Ocean and Seafloor Drilling; 1.5.5 Planetary Drilling and Sampling; 1.5.6 Ice Drilling; 1.5.7 Dental Drills; 1.6 Conclusion; References; 2 Principles of Drilling and Excavation; 2.1 Introduction; 2.2 Physical Properties of Rocks; 2.2.1 Terrestrial Rocks; 2.2.2 Extraterrestrial Rocks; 2.2.3 Influence Factors for Rock Mechanical Properties
2.3 Stresses and Energy in Drilling2.3.1 Stress in Sedimentary Basins; 2.3.2 Stresses Around a Borehole; 2.4 Theories of Rock Breakage; 2.4.1 Percussion Drilling; 2.4.2 Rotary Drilling; 2.4.3 Percussion-Rotary; 2.4.4 Other Drilling Methods; 2.4.5 Drilling Efficiency; 2.5 Conclusion; 2.5.1 Underground Rocks and Stresses; 2.5.2 Drilling Theories; 2.5.3 Effect of Environment on Drilling; References; 3 Ground Drilling and Excavation; 3.1 Background; 3.1.1 Three Requirements for Any Drilling System; 3.1.2 Types of Earth Boreholes; 3.2 Drilling Rigs; 3.2.1 Percussion Drilling Rigs
3.2.2 Rotary Drilling Rigs3.3 Penetrating the Material; 3.3.1 Basic Rock Destruction Mechanism; 3.3.2 Specific Energy Comparison of Different Drilling Methods; 3.4 Cuttings Transport and Disposal; 3.4.1 Cuttings Transport from Under a Bit in Terrestrial Operations; 3.4.2 Cuttings Transport Beyond the Bit; 3.4.3 Cuttings Removal In Situ; 3.4.4 Recompaction of Cuttings; 3.4.5 Creation of Disposal Volume; 3.5 Directional Drilling; 3.5.1 Reference Systems; 3.5.2 Directional Control Factors; 3.5.3 Bit Design; 3.5.4 Bottom Hole Assemblies; 3.5.5 Directional Mechanics; 3.5.6 BHA Modeling
3.5.7 Planning3.5.8 Survey Techniques; 3.5.9 Survey Calculations; 3.6 Sidewall Friction and Unconsolidated Drilling Issues; 3.6.1 Soil Penetration by Cones; 3.6.2 Pile Driving Formulas; 3.6.3 Methods of Cone Resistance Determination; 3.6.4 Pressure Bubble; 3.6.5 Permafrost Piling; 3.6.6 Vibratory Pile Driving; 3.6.7 Impact on Penetration Resistance; 3.7 Conclusion; References; 4 Ice Drilling and Coring; 4.1 Introduction; 4.2 Coring Drills; 4.2.1 Surface-Driven Rotary Drills; 4.2.2 Wireline Drill; 4.2.3 Cable-Suspended Electromechanical Drills; 4.2.4 Cable-Suspended Electrothermal Drills
4.2.5 Hand Augers

Sommario/riassunto

Uniquely comprehensive and up to date, this book covers terrestrial as well as extraterrestrial drilling and excavation, combining the technology of drilling with the state of the art in robotics. The authors come from industry and top ranking public and corporate research institutions and provide here real-life examples, problems, solutions and case studies, backed by color photographs throughout.The result is a must-have for oil companies and all scientists involved in planetary research with robotic probes.With a foreword by Harrison ""Jack"" Schmitt -- the first geologist to drill