

1. Record Nr.	UNINA9910462014903321
Titolo	Petroleum engineering handbook [[electronic resource] ] . Volume II Drilling engineering / / Larry W. Lake, editor-in-chief ; Robert F. Mitchell, editor
Pubbl/distr/stampa	Richardson, TX, : Society of Petroleum Engineers, 2006
ISBN	1-55563-332-3
Descrizione fisica	1 online resource (772 p.)
Altri autori (Persone)	LakeLarry W FanchiJohn R
Soggetti	Petroleum engineering Petroleum industry and trade 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 and indexes.
Nota di contenuto	""Foreword""; ""Preface""; ""Contents""; ""1 - Geomechanics Applied to Drilling Engineering""; ""1.1 Introduction""; ""1.2 Stress, Pore Pressure, and Effective Stress""; ""1.3 Rock Properties""; ""1.4 Elastic Wellbore Stress Concentration""; ""1.5 Determining Stress Orientation""; ""1.6 Building the Geomechanical Model""; ""1.7 Predicting Wellbore Stability""; ""1.8 Other Models for Wellbore Stability""; ""1.9 Making Decisions in Real Time""; ""Acknowledgments""; ""Nomenclature""; ""References""; ""General References""; ""SI Metric Conversion Factors""; ""2 - Drilling Fluids"" ""2.1 Introduction""""2.2 Basic Functions of a Drilling Fluid""; ""2.3 Types of Drilling Fluids""; ""2.4 Drilling-Fluids Testing""; ""2.5 Challenges Related to Drilling Fluid""; ""2.6 Special Drilling Situations""; ""2.7 Environmental Considerations""; ""2.8 Solids Control and Waste Management""; ""2.9 Drilling-Fluid Considerations""; ""Nomenclature""; ""References""; ""SI Metric Conversion Factors""; ""3 - Fluid Mechanics for Drilling""; ""3.1 Introduction""; ""3.2 Overview""; ""3.3 Governing Equations""; ""3.4 Key Considerations for Wellbore Hydraulic Simulation"" ""3.5 Static Wellbore Pressure Solutions""""3.6 Flowing Wellbore Pressure Solutions""; ""3.7 General Steady Flow Wellbore Pressure

Solutions"; "3.8 Calculating Pressures in a Wellbore"; "3.9 Surge Pressure Prediction"; "3.10 Fluid Friction"; "3.11 Dynamic Pressure Prediction"; "3.12 Cuttings Transport"; "3.13 Sample Calculations"; "Nomenclature"; "References"; "General References"; "SI Metric Conversion Factors"; "4 - Well Control: Procedures and Principles"; "4.1 Introduction to Kicks"; "4.2 Kick Detection and Monitoring With MWD Tools"; "4.3 Shut-In Procedures"; "4.4 Obtaining and Interpreting Shut-In Pressures"; "4.5 Kick Identification"; "4.6 Kill-Weight Mud Calculation"; "4.7 Well-Control Procedures"; "4.8 Choosing the Best Method"; "4.9 Variables Affecting Kill Procedures"; "4.10 Implementation of the One-Circulation Method"; "4.11 Nonconventional Well-Control Procedures"; "Nomenclature"; "General References"; "SI Metric Conversion Factors"; "5 - Introduction to Roller-Cone and Polycrystalline Diamond Drill Bits"; "5.1 Introduction"; "5.2 Roller-Cone Drill Bits"; "5.3 PDC Drill Bits"; "Acknowledgments"; "References"; "SI Metric Conversion Factors"; "6 - Directional Drilling"; "6.1 Introduction to Directional Drilling"; "6.2 Directional-Well Profiles"; "6.3 Directional Survey"; "6.4 BHA Design for Directional Control"; "Nomenclature"; "Acknowledgments"; "References"; "SI Metric Conversion Factors"; "7 - Casing Design"; "7.1 Introduction"; "7.2 Casing"; "7.3 Tubing"; "7.4 Properties of Casing and Tubing"; "7.5 Pipe Strength"; "7.6 API Connection Ratings"; "7.7 Connection Failures"; "7.8 Connection Design Limits"; "7.9 Casing and Tubing Buckling"; "7.10 Loads on Casing and Tubing Strings"

---