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Nota di contenuto	Front Cover; Drilling Fluids Processing Handbook; Copyright Page; Contents; Biographies; Preface; Chapter 1. Historical Perspective and Introduction; 1.1 Scope; 1.2 Purpose; 1.3 Introduction; 1.4 Historical Perspective; 1.5 Comments; 1.6 Waste Management; Chapter 2. Drilling Fluids; 2.1 Drilling Fluid Systems; 2.2 Characterization of Solids in Drilling Fluids; 2.3 Properties of Drilling Fluids; 2.4 Hole Cleaning; 2.5 Drilling Fluid Products; 2.6 Health, Safety, and Environment and Waste Management; References; Chapter 3: Solids Calculation 3.1 Procedure for a More Accurate Low-Gravity Solids Determination3.2 Determination of Volume Percentage of Low-Gravity Solids in Water-Based Drilling Fluid; 3.3 Rig-Site Determination of Specific Gravity of Drilled Solids; Chapter 4. Cut Points; 4.1 How to Determine Cut Point Curves; 4.2 Cut Point Data: Shale Shaker Example; Chapter 5. Tank Arrangement; 5.1 Active System; 5.2 Auxiliary Tank System; 5.3 Slug

Tank; 5.4 Reserve Tank(S); Chapter 6. Scalping Shakers and Gumbo Removal; Chapter 7. Shale Shakers; 7.1 How A Shale Shaker Screens Fluid; 7.2 Shaker Description; 7.3 Shale Shaker Limits
7.4 Shaker Development Summary7.5 Shale Shaker Design; 7.6 Selection of Shale Shakers; 7.7 Cascade Systems; 7.8 Dryer Shakers; 7.9 Shaker User's Guide; 7.10 Screen Cloths; 7.11 Factors Affecting Percentage-Separated Curves; 7.12 Non-Oilfield Drilling Uses of Shale Shakers; Chapter 8. Settling Pits; 8.1 Settling Rates; 8.2 Comparison of Settling Rates of Barite and Low-Gravity Drilled Solids; 8.3 Comments; 8.4 Bypassing the Shale Shaker; Chapter 9. Gas Busters, Separators, and Degassers; 9.1 Introduction: General Comments on Gas Cutting; 9.2 Shale Shakers and Gas Cutting
9.3 Desanders, Desilters, and Gas Cutting9.4 Centrifuges and Gas Cutting; 9.5 Basic Equipment for Handling Gas-Cut Mud; 9.6 Gas Busters; 9.7 Separators; 9.8 Pressurized Separators; 9.9 Degassers; 9.10 Points About Separators and Separation; References; Chapter 10. Suspension, Agitation, and Mixing of Drilling Fluids; 10.1 Basic Principles of Agitation Equipment; 10.2 Mechanical Agitators; 10.3 Equipment Sizing and Installation; 10.4 Mud Guns; 10.5 Pros And Cons of Agitation Equipment; 10.6 Bernoulli's Principle; 10.7 Mud Hoppers; 10.8 Bulk Addition Systems; 10.9 Tank/Pit Use; References
Chapter 11. Hydrocyclones11.1 Discharge; 11.2 Hydrocyclone Capacity; 11.3 Hydrocyclone Tanks and Arrangements; 11.4 Median (D50) Cut Points; 11.5 Hydrocyclone Operating Tips; 11.6 Installation; 11.7 Conclusions; Chapter 12. Mud Cleaners; 12.1 History; 12.2 Uses of Mud Cleaners; 12.3 Non-Oilfield Use of Mud Cleaners; 12.4 Location of Mud Cleaners in a Drilling-Fluid System; 12.5 Operating Mud Cleaners; 12.6 Estimating The Ratio of Low-Gravity Solids Volume and Barite Volume in Mud Cleaner Screen Discard; 12.7 Performance; 12.8 Mud Cleaner Economics
12.9 Accuracy Required for Specific Gravity of Solids

Sommario/riassunto

Written by the Shale Shaker Committee of the American Society of Mechanical Engineers, originally of the American Association of Drilling Engineers, the authors of this book are some of the most well-respected names in the world for drilling. The first edition, Shale Shakers and Drilling Fluid Systems, was only on shale shakers, a very important piece of machinery on a drilling rig that removes drill cuttings. The original book has been much expanded to include many other aspects of drilling solids control, including chapters on drilling fluids, cut-point curves, mud cleaners, and many other

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