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| Nota di contenuto | APPLIED HYDRO-AEROMECHANICS IN OIL AND GAS DRILLING; CONTENTS; PREFACE; NOTATION; 1 MAIN RESULTS AND DEVELOPMENT LINES IN HYDRO-AEROMECHANICS OF DRILLING PROCESSES; 2 BASIC PROBLEMS OF HYDRO-AEROMECHANICS IN DRILLING PROCESSES; 3 MULTIPHASE MEDIA IN DRILLING PROCESSES; 4 HYDRO-AEROMECHANIC EQUATIONS OF DRILLING PROCESSES; 5 HYDROSTATICS OF SINGLE-PHASE FLUIDS AND TWO-PHASE MIXTURES IN GRAVITY FIELD; 6 STATIONARY FLOW OF FLUIDS IN ELEMENTS OF THE WELL CIRCULATION SYSTEM; 7 EQUILIBRIUM AND MOTION OF RIGID PARTICLES IN FLUID, |

GAS, AND GAS-LIQUID MIXTURE

8 STATIONARY FLOW OF GAS AND GAS-CUTTING MIXTURE IN ELEMENTS OF WELL CIRCULATION SYSTEM9 STATIONARY FLOWS OF GAS-LIQUID MIXTURES IN A WELL; 10 NONSTATIONARY FLOWS OF SINGLE-PHASE FLUIDS IN A WELL; 11 FLOWS OF FORMATION FLUIDS AND ROCK SOLIDS; 12 NONSTATIONARY FLOWS OF GAS-LIQUID MIXTURES IN WELL-FORMATION SYSTEM; 13 NONSTATIONARY FLOWS OF FLUID MIXTURES IN WELL-FORMATION SYSTEM: CALCULATION OF FLUID-GAS BLOWOUT KILLING
14 DISTRIBUTION OF CONCENTRATION AND PRESSURE IN DISPLACEMENT OF NEWTONIAN AND VISCOUS-PLASTIC FLUIDS FROM CIRCULAR PIPES AND ANNULAR CHANNELS: HYDRAULIC CALCULATION OF CEMENTATION REGIME15 SEDIMENTATION OF RIGID PHASE IN DRILLING FLUID AFTER DEADLOCK OF MIXING; 16 EXPERIMENTAL DETERMINATION OF RHEOLOGICAL CHARACTERISTICS; REFERENCES; AUTHOR INDEX; SUBJECT INDEX; ABOUT THE AUTHORS

Sommario/riassunto

Hydromechanical processes underlie the majority of technology operations in drilling, and present a crucial concern as the pace and depth of drilling increases in today's energy-hungry world. Applied Hydroaeromechanics in Oil and Gas Drilling offers a unique resource for properly modeling and understanding the hydrodynamic forces affecting a drilling site. Combining hydrodynamic theory with specific drilling applications, this coverage provides readers with a comprehensive reference for designing, planning, and optimizing drilling operations.
