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3.1 Heat Exchange in the Wellbore-Formation System
3.2 Downhole Circulating Mud Temperatures; 3.3 Drilling Fluid Densities at High Temperatures and Pressures; 3.4 Hydrostatic Mud Pressure; 3.5 Drilling Through Hydrates; 3.6 Formation Temperatures Around the Wellbore; 3.7 Thermal Stresses in Formations and Casings; 3.8 Drilling Through Permafrost Interval; 3.9 Hole Enlargement Control in Permafrost Areas; CHAPTER 4. WELLBORE AND FORMATIONS TEMPERATURE DURING SHUT-IN; 4.1 Determination of the Downhole Shut-in Temperatures; 4.2 Prediction of the Formations Temperatures
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6.5 Permafrost Thawing and Estimation of Well Thermal Insulation Efficiency
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8.3 APPENDIX C. COMPUTER PROGRAMS (FORTRAN); REFERENCES; INDEX

Sommario/riassunto

The purpose of Applied Geothermics for Petroleum Engineers is to present in a clear and concise form methods of utilizing the data of temperature surveys in deep boreholes as well as the results of field, laboratory and analytical investigations in geothermics to a wide audience. Although some aspects of the subject of this book have been discussed in several previous books and numerous papers, Applied Geothermics for Petroleum Engineers is the first book on this topic available to the petroleum engineering community. The objective of the book is to present the state of knowl