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Chapter 5 - Reservoir Characterization of Unconventional Gas Formations 5.1 SUMMARY; 5.2 INTRODUCTION; 5.3 ORIGIN OF FRACTURES; 5.4 SEISMIC FRACTURE CHARACTERIZATION; 5.5 RESERVOIR CHARACTERIZATION DURING DRILLING; 5.6 RESERVOIR CHARACTERIZATION WITH IMAGE LOG AND CORE ANALYSIS; 5.7 MAJOR FORCES OF OIL AND GAS RESERVOIRS; 5.8 RESERVOIR HETEROGENEITY; 5.9 SPECIAL CONSIDERATIONS FOR SHALE; 5.10 SPECIAL CONSIDERATIONS FOR COALBED METHANE; Chapter 6 - Scientific Characterization of Unconventional Gas Reservoirs; 6.1 SUMMARY; 6.2 INTRODUCTION; 6.3 SCIENCE OF NATURE VERSUS NATURAL SCIENCE 6.4 DELINEARIZED HISTORY OF CHARACTERIZATION OF MATTER AND ENERGY 6.5 CHARACTERIZATION OF EVERYTHING IN EXISTENCE; 6.6 ORGANIC AND MECHANICAL FREQUENCIES; 6.7 REDEFINING FORCE AND ENERGY; 6.8 WHAT IS A NATURAL ENERGY SOURCE?; 6.9 THE SCIENCE OF WATER AND PETROLEUM; 6.10 ORGANIC ORIGIN OF PETROLEUM; 6.11 PLACEMENT OF UNCONVENTIONAL GAS IN THE ENERGY PICTURE; Chapter 7 - Overview of Reservoir Simulation of Unconventional Reservoirs; 7.1 INTRODUCTION; 7.2 ESSENCE OF RESERVOIR SIMULATION; 7.3 RECENT ADVANCES IN RESERVOIR SIMULATION; 7.4 COMPREHENSIVE MODELING 7.5 TOWARDS SOLVING NONLINEAR EQUATIONS Chapter 8 - Economic Outlook and Conclusions; 8.1 SUMMARY; 8.2 ECONOMICS OF UNCONVENTIONAL AND ECONOMICS OF INTANGIBLES; 8.3 CONCLUSIONS AND RECOMMENDATIONS; REFERENCES; INDEX

Sommario/riassunto

Natural gas, especially unconventional gas, has an increasingly important role in meeting the world's energy needs. Experts estimate that it has the potential to add anywhere from 60-250% to the global proven gas reserve in the next two decades. To maintain pace with increasing global demand, Unconventional Gas Reservoirs provides the necessary bridge into the newer processes, approaches and designs to help identify these more uncommon reservoirs available and how to maximize its unconventional potential. Loaded with reservoir development and characterization strategies, this book will sho

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