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Advanced Petrophysics: Volume 1: Geology, Porosity, Absolute Permeability, Heterogeneity, and Geostatistics (Paperback)

By Ekwere J Peters Phd Pe, E J Peters

Live Oak Book Company, United States, 2012. Paperback. Book Condition: New. New.. 272 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.A practical, fast-paced approach to teaching the concepts and problems common in petroleum engineering that will appeal to a wide range of disciplines Petrophysics is the study of rock properties and their interactions with fluids, including gases, liquid hydrocarbons, and aqueous solutions. This three-volume series from distinguished University of Texas professor Dr. Ekwere J. Peters provides a basic understanding of the physical properties of permeable geologic rocks and the interactions of the various fluids with their interstitial surfaces, with special focus on the transport properties of rocks for single-phase and multiphase flow. Based on Dr. Peters's graduate course that has been taught internationally in corporations and classrooms, the series covers core topics and includes full-color CT and NMR images, graphs, and figures to illustrate practical application of the material. Subjects addressed in volume 1 (chapters 1-4) include Geological concepts Porosity and water saturation Absolute permeability Heterogeneity and geostatistics Advanced Petrophysics features over 140 exercises designed to strengthen learning and extend concepts into practice. Additional information in the appendices covers dimensional analysis and a...



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