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geological-prospecting efficiency -- Chapter 10. Generation potential of the Lower Pliocene deposits and its importance (contribution) to hydrocarbon generation in the South Caspian Basin -- Chapter 11. Isotopic-geochemical characteristics of organic matter and hydrocarbon fluids from the SCB Productive Series. Oil-rock relationships -- Chapter 12. Maturity of hydrocarbon fluids in the PS reservoirs and deep-stratigraphic confining of their formation hearths -- Chapter 13. Special features of hydrocarbon migration and the mechanism of oil trap filling in the Productive Series -- Chapter 14. Hydrocarbon preservation conditions in the Productive Series -- Chapter 15. Tectonic-geodynamic model of oil and gas field formation in the Productive Series of the South Caspian -- Chapter 16. Akchagylia hydrospheric phenomenon and its connection with deep geodynamics -- Chapter 17. Estimating informational content for hydrocarbons searching in Azerbaijan -- Chapter 18. Deep structure of Azerbaijan and its relationship with hydrocarbon reserves -- Chapter 19. An analysis of geological studies and recommendations for the very future -- Index.

Sommario/riassunto

This book demonstrates different stages of hydrocarbon deposit localization in a tectonically complex region—the South Caspian Mega-Basin (SCMB). Each of the stages: tectonics, sedimentation, lithology, structural analysis, and geophysical method application is described in detail and accompanied by numerous color (major) and black-white (minor) illustrations. The main benefit of this book is that the Azerbaijan hydrocarbon province has been investigated for more than 150 years, resulting in a very comprehensive archive of geological information. This book is intended not only for students of various degrees, but also for professional geologists studying principles of hydrocarbon accumulations under difficult geological environments.
