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	upon some physical properties of sandstone reservoirs; Quantitative analysis of clay and other minerals in sandstones by X-ray powder diffraction (XRPD) A review of radiometric dating techniques for clay mineral cements in sandstonesChlorite case study; Chlorite authigenesis and porosity preservation in the Upper Cretaceous marine sandstones of the Santos Basin, offshore eastern Brazil; Kaolinite case studies; Origin and diagenetic evolution of kaolin in reservoir sandstones and associated shales of the Jurassic and Cretaceous, Salam Field, Western Desert (Egypt); Microscale distribution of kaolinite in Breathitt Formation sandstones (middle Pennsylvanian): implications for mass balance The role of the Cimmerian Unconformity (Early Cretaceous) in the kaolinitization and related reservoir-quality evolution in Triassic sandstones of the Snorre Field, North SeaThe formation and stability of kaolinite in Brent sandstone reservoirs: a modelling approach; Illite case studies; Illite fluorescence microscopy: a new technique in the study of illite in the Merrimelia Formation, Cooper Basin, Australia; Geochemical modelling of diagenetic illite and quartz cement formation in Brent sandstone reservoirs: example of the Hild Field, Norwegian North Sea The effect of oil emplacement on diagenetic clay mineralogy: the Upper Jurassic Magnus Sandstone Member, North SeaGlauconite case study; Application of glauconite morphology in geosteering and for on-site reservoir quality assessment in very fine-grained sandstones: Carnarvon Basin, Australia; Index; Colour plates
Sommario/riassunto	Clay minerals are one of the most important groups of minerals that destroy permeability in sandstones. However, they also react with drilling and completion fluids and induce fines migration during hydrocarbon production. They are a very complex family of minerals that are routinely intergrown with each other, contain a wide range of solid solutions and form by a variety of processes under a wide range temperatures and rock and fluid compositions. br /> In this volume, clay minerals in sandstones are reviewed in terms of their mineralogy and general occurrence, their stable and radiogenic i