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Coal-Bearing Depositional Systems

By Diessel, Claus F.K.

Book Condition: New. Publisher/Verlag: Springer, Berlin | The author presents examples of coal deposits two different continents: from the European Carboniferous and the Permian Gondwana sequence of Australia. The organic and petrographic composition of the coal content of palaeo-environmentally well defined groups of sediments allow the discrimination of two coal facies indices as suitable indicators for distinct settings. Combining the analytical methods of coal petrography, sedimentology and sequence stratigraphy an integrated view of coal formation is attained. | 1 Introduction.- 2 The Conditions of Peat Formation.- 2.1 Peatland Ecology.- 2.1.1 Coastal Marshes and Swamps.- 2.1.1.1 The Marine Influence on Peat Accumulation.- 2.1.1.2 The Influence of Marine Transgressions and Regressions.- 2.1.2 Fresh-Water Peatlands.- 2.1.2.1 Upper Delta and Alluvial Plain Swamps, Marshes and Bogs.- 2.1.2.2 Limnic Environments.- 2.2 Peat Composition and Peat-Forming Plants.- 2.3 Climate and Peat Accretion.- 2.4 Evolutionary Trends in Peat and Coal Formation.- 3 The Coalification Process.- 3.1 Biochemical Coalification.- 3.1.1 The Vitrinitisation Path.- 3.1.2 The Fusinitisation Path.- 3.1.3 Plant-Specific Coal Components.- 3.2 Physico-Chemical Coalification.- 3.2.1 The Concept of Coal Rank.- 3.2.1.1 Solubility in Alkali Hydroxides.- 3.2.1.2 Moisture Content and Specific Energy.- 3.2.1.3 Volatile Matter and Fixed Carbon.- 3.2.1.4 Elemental Carbon.- 3.2.1.5 Vitrinite Reflectance and Other Physical Rank Parameters.-...



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