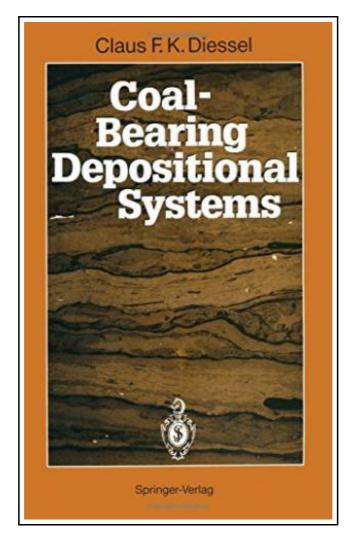
Coal-Bearing Depositional Systems



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Reviews

Basically no words to clarify. Of course, it is perform, still an amazing and interesting literature. Its been printed in an exceptionally basic way which is only soon after i finished reading through this ebook where actually altered me, change the way i really believe.

(Newton Runolfsson)

COAL-BEARING DEPOSITIONAL SYSTEMS



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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.- 3.2.2 The Effects of Pressure, Temperature and Time.- 4 Coal Petrographic Entities.- 4.1 Macerals.-4.1.1 The Huminite/Vitrinite Group.- 4.1.1.1 The Humotelinite/Telovitrinite Subgroup.- 4.1.1.2 The Humodetrinite/Detrovitrinite Subgroup.- 4.1.1.3 The Humocollinite/Gelovitrinite Subgroup.- 4.1.2 The Inertinite Group.- 4.1.2.1 The Telo-Inertinite Subgroup.- 4.1.2.2 The Detro-Inertinite Subgroup.- 4.1.2.3 The Gelo-Inertinite Subgroup.- 4.1.3 The Liptinite Group.- 4.1.3.1 Primary Liptinites.- 4.1.3.2 Secondary Liptinites.- 4.1.4 Maceral Analysis.- 4.2 Microlithotypes.- 4.2.1 Microlithotype Analyses.- 4.2.2 The Relationship Between Microlithotypes and Macerals.- 4.3 Lithotypes.- 4.3.1 Lithotype Analysis.- 4.3.2 The Relationship Between Lithotypes, Macerals and Microlithotypes.- 4.4 Minerals.- 4.4.1 Phytogenic Minerals.- 4.4.2 Adventitious Minerals.- 4.4.2.1 Silicate Minerals.-4.4.2.2 Silica Minerals.- 4.4.2.3 Carbonate...



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