1. Record Nr. UNINA9910479974903321 Autore Galloway William E Titolo Terrigenous Clastic Depositional Systems [[electronic resource]]: Applications to Fossil Fuel and Groundwater Resources / / by William E. Galloway, David K. Hobday Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, Pubbl/distr/stampa , 1996 ISBN 3-642-61018-8 Edizione [2nd ed. 1996.] Descrizione fisica 1 online resource (XVI, 491 p.) Disciplina 551.3 Soggetti Sedimentology Geology Mineral resources Water pollution Mineral Resources Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Includes bibliographical references and index. Nota di bibliografia 1 Fuel-Mineral Resource Base -- Energy Resource Base -- Relevance of Nota di contenuto Depositional Systems to Energy Resources -- Applications in the Environmental Arena -- 2 Approaches to Genetic Stratigraphic Analysis -- Introduction: Depositional and Sediment Dispersal Systems --Applied Depositional System Analysis -- Seismic Stratigraphy and Facies Analysis -- Recognition of Depositional Systems: An Example --Base Level Change and Vertical Sequence -- Integrated Depositional System Analysis -- 3 Alluvial Fans -- Processes Acting on Alluvial Fans -- Spectrum of Alluvial Fan Systems -- Fan Deltas -- Ancient Alluvial Fan and Fan Delta Systems -- Basin-Fill Architecture -- Alluvial Fans Through Geologic Time -- Resource Potential of Alluvial Fan Systems -- 4 Fluvial Systems -- Depositional Processes -- Fluvial Environments and Facies -- Spectrum of Fluvial Depositional Systems -- Eroding Rivers: Stable Channel and Valley-Fill Systems -- Fluvial Evolution Through Geologic Time -- Ancient Fluvial Systems -- 5 Delta Systems

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Sommario/riassunto

This second edition of Terrigenous Clastic Depositional Systems bridges the gap between process-related outcrop studies of sedimentary rocks and the three-dimensional subsurface world of the mineral fuel geologist and hydrogeologist. It remains unique in its focus on the application of subsurface facies analysis to problems of petroleum, coal, uranium, and ground water resource discovery, delineation, and production. The text and figures have been rewritten and updated. New chapters summarize applications of sequence

stratigraphy to facies analysis and the use of detailed facies interpretation in reservoir and aquifer characterization.