

1. Record Nr.	UNINA9911019132703321
Titolo	Analogue and numerical modelling of sedimentary systems : from understanding to prediction / / edited by Poppe de Boer ... [et al.]
Pubbl/distr/stampa	Chichester, UK ; ; Hoboken, NJ, : Wiley-Blackwell, : International Association of Sedimentologists, 2008
ISBN	9786612007873 9781282007871 1282007874 9781444303131 1444303139 9781444303148 1444303147
Descrizione fisica	1 online resource (328 p.)
Collana	Special publication of the International Association of Sedimentologists ; ; number 40
Altri autori (Persone)	BoerPoppe Lubberts de <1949->
Disciplina	552.5 552/.5
Soggetti	Geology - Italy - Dolomite Alps Geology, Stratigraphic - Mesozoic Carbonate rocks - Italy - Dolomite Alps Sedimentary basins - Italy - Dolomite Alps Sedimentary structures - Italy - Dolomite Alps - Mathematical models Sequence stratigraphy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Predicting discharge and sediment flux of the Po River, Italy since the Last Glacial MaximumALBERT J. KETTNER and JAMES P.M. SYVITSKIImpact of discharge, sediment flux and sea-level change on stratigraphic architecture of river-delta-shelf systemsGEORGE POSTMA and AART PETER VAN DEN BERG VAN SAPAROEAB; Grain-size sorting of river-shelf-slope sediments during glacial-interglacial cycles: modelling grain-size distribution and interconnectedness of coarse-grained bodiesXANDER D.MEIJER

Modelling the preservation of sedimentary deposits on passive continental margins during glacial-interglacial cycles XANDER D. MEIJER, GEORGE POSTMA, PETER A. BURROUGH and POPPE L. DE BOER Modelling source-rock distribution and quality variations: the organic facies modelling approach UTE MANN and JANINE ZWEIGEL 1; Spatial data templates: combining simple models of physical processes with stochastic noise to yield stable, archetypal landforms PETER A. BURROUGH 1; Models that talk back JOHN C. TIPPER; Index

Sommario/riassunto

Understanding basin-fill evolution and the origin of stratal architectures has traditionally been based on studies of outcrops, well and seismic data, studies of and inferences on qualitative geological processes, and to a lesser extent based on quantitative observations of modern and ancient sedimentary environments. Insight gained on the basis of these studies can increasingly be tested and extended through the application of numerical and analogue forward models. Present-day stratigraphic forward modelling follows two principle lines: 1) the deterministic process-based approach, ideally w