

1. Record Nr.	UNISA996210112003316
Titolo	Particulate gravity currents [[electronic resource] /] / edited by William McCaffrey, Ben Kneller, and Jeff Peakall
Pubbl/distr/stampa	Oxford ; ; Malden, MA, : Blackwell Science, 2001
ISBN	9786612042379 1-4443-0427-5 1-282-04237-8 1-4443-0428-3
Descrizione fisica	1 online resource (315 p.)
Collana	Special publication number 31 of the International Association of Sedimentologists
Altri autori (Persone)	KnellerB. C McCaffreyWilliam (William D.) PeakallJeff
Disciplina	551.3 551.3/03 551.303
Soggetti	Fluid dynamics Granular materials Gravity Sediment transport
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	""Preface""; ""Particulate gravity currents: perspectives""; ""J . PEAKALL, M. FELIX, B. M CAFFREY and B. KNELLER""; ""Mechanics and simulation of snow avalanches, pyroclastic flows and debris flows""; ""T. TAKAHASHI""; ""An analysis of the debris flow disaster in the Harihara River basin""; ""H. NAKAGAWA, T. TAKAHASHI and Y. SATOFUKA""; ""Theoretical study on breaking of waves on antidunes""; ""Y. KUBO and M. YOKOKAWA""; ""A two-dimensional numerical model for a turbidity current""; ""M. FELIX""; ""Granular flows in the elastic limit""; ""C. S . CAMPBELL"" ""Bagnold revisited: implications for the rapid motion of high-concentration sediment flows""""S . STRAUB""; ""Downslope flows into rotating and stratified environments""; ""P . G. BAINES""; ""Two-

dimensional and axisymmetric models for compositional and particle-driven gravity currents in uniform ambient flows"; "A. J. HOGG and H. E. HUPPERT"; "Ping-pong ball avalanche experiments"; "J. M. ELWAINE and K. NISHIMURA"; "Dam-break induced debris flow"; "H. CAPART, D.-L. YOUNG and Y. ZECH"

"Mean flow and turbulence structure of sediment-laden gravity currents: new insights using ultrasonic Doppler velocity profiling"; "J. L. BEST, A.D. KIRKBRIDE and J. PEAKALL"; "Turbulence structure in steady, solute-driven gravity currents"; "C. BUCKEE, B. KNELLER and J. PEAKALL"; "Experimental evidence for autosuspension"; "H. M. PANTIN"; "Time- and space-resolved measurements of deposition under turbidity currents"; "F. DE ROOIJ and S. B. DALZIEL"

Sommario/riassunto

This volume arises from the conference Sediment Transport and Deposition by Particulate Gravity Currents held in the UK in 1998. The field of particulate gravity currents ranges from turbidity currents in the oceans, lakes and reservoirs to pyroclastic density currents and avalanches, debris flows and lahars, grainflows, powder snow avalanches, effluent dispersal and ancient gravity current deposits. Although the sub-division of particulate gravity currents into discrete sub-categories (such as grain flows, turbidity currents or debris flows) provides a convenient descriptive shorthand, it un
