

1. Record Nr.	UNINA9910254013703321
Autore	Castro-Orgaz Oscar
Titolo	Non-Hydrostatic Free Surface Flows / / by Oscar Castro-Orgaz, Willi H. Hager
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-47971-7
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVI, 696 p. 230 illus., 17 illus. in color.)
Collana	Advances in Geophysical and Environmental Mechanics and Mathematics, , 1866-8348
Disciplina	532.05
Soggetti	Geotechnical engineering Hydrology Hydrogeology Fluid mechanics Geotechnical Engineering & Applied Earth Sciences Hydrology/Water Resources Engineering Fluid Dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1. Introduction -- 2. Vertically integrated non-hydrostatic free surface flow equations -- 3. Inviscid channel flows -- 4. Seepage flows -- 5. Viscous channel flows -- 6. Granular flows -- 7. Concluding remarks -- Appendices.
Sommario/riassunto	This book provides essential information on the higher mathematical level of approximation over the gradually varied flow theory, also referred to as the Boussinesq-type theory. In this context, it presents higher order flow equations, together with their applications in a broad range of pertinent engineering and environmental problems, including open channel, groundwater, and granular material flows.