

1. Record Nr.	UNINA9910826376803321
Titolo	Advances in environmental fluid mechanics // Dragutin T. Mihailovic, Carlo Gualtieri, editors
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific, c2010
ISBN	1-282-76195-1 9786612761959 981-4293-00-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (380 p.)
Altri autori (Persone)	MihailovicDragutin T GualtieriCarlo
Disciplina	620.106
Soggetti	Fluid mechanics Geophysics - Fluid models Environmental hydraulics
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	Turbulent dispersion : how results for the zero molecular diffusivity case can be used in the real world / Nils Mole, Philip Christopher Chatwin and Paul J. Sullivan -- Hierarchy and interactions in environmental interfaces regarded as biophysical complex systems / Dragutin T. Mihailovic and Igor Balaz -- Some recent advances in modeling stable atmospheric boundary layers / Branko Grisogono -- Modelling of stratified and turbulent flow / Vladimir Fuka, Josef Brechler and Ales Jirk -- The environmental hydraulics of turbulent boundary layers / Robert J. Schindler and Josef Daniel Ackerman -- Reynolds number effect on spatial development of viscous flow induced by wave propagation over bed ripples / Athanassios A. Dimas and Gerasimos A. Kolokythas -- Calculation of aggregated albedo in rectangular solid geometry on environmental interfaces / Darko Kapor, Ana Cirisan and Dragutin T. Mihailovic -- Locating a possible source of air pollution using a combination of measurements and inverse modeling / Borivoj Rajkovic, Mirjam Vujadinovic and Zoran Grsic -- Long-term measurements of energy budget and trace gas fluxes between the atmosphere and different types of ecosystems in Hungary

/ Tamas Weidinger ... [et al.] -- Integration of spatio-temporal data for fluid modeling in the GIS environment / Lubos Matejcek -- Modeling pathogen intrusion on safe drinking water : CFD versus physical models / P. Amparo Lopez-Jimenez ... [et al.] -- Numerical simulation of mass exchange processes in a dead zone of a river / Carlo Gualtieri -- Modeling mercury fate and transport in aquatic systems / Arash Massoudieh ... [et al.] -- 3D ecological modelling of the Aveiro Coast (Portugal) / J. F. Lopes and Ana C. Cardoso -- Experimental calibration of a simplified method to evaluate absolute roughness of vegetated channels / Sergio De Felice, Paola Gualtieri and Guelfo Pulci Doria.

Sommario/riassunto

Environmental fluid mechanics (EFM) is the scientific study of transport, dispersion and transformation processes in natural fluid flows on our planet Earth, from the microscale to the planetary scale. This book brings together scientists and engineers working in research institutions, universities and academia, who engage in the study of theoretical, modeling, measuring and software aspects in environmental fluid mechanics. It provides a forum for the participants, and exchanges new ideas and expertise through the presentations of up-to-date and recent overall achievements in this field.
