

1. Record Nr.	UNINA9910791223603321
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Titolo	Progress in Computational Physics (PiCP) Vol [[electronic resource]] : 2 Coupled Fluid Flow in Energy, Biology and Environmental Research
Pubbl/distr/stampa	Sharjah, : Bentham Science Publishers, 2012
Descrizione fisica	1 online resource (140 p.)
Collana	Progress in Computational Physics (PiCP) ; ; v.2
Disciplina	530.0285
Soggetti	Mathematical physics Physics -- Data processing Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	01 Title.pdf; 03 REVISED eBooks End User License Agreement-Website; 04 contents; 05 Foreword; 06 preface; 07 Contributors; 08 1 ChapterEhrhardt; 09 2 ChapterChandesris; 10 3 ChapterSochala; 11 4 ChapterBernardi; 12 5 ChapterCai; 13 6 ChapterMaury; 14 7 ChapterHoppe; 15 index
Sommario/riassunto	This second volume contains both, the mathematical analysis of the coupling between fluid flow and porous media flow and state-of-the art numerical techniques, like tailor-made finite element and finite volume methods. Readers will come across articles devoted to concrete applications of these models in the field of energy, biology and environmental research.