1. | | |
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   | Record Nr. | UNINA9900013530004033321 |
   | Autore | Hunt, Bruce |
   | Titolo | The geometry of some special aritmetic quotients / Bruce Hunt |
   | Pubbl/distr/stampa | Berlin : Springer-Verlag, 1996 |
   | ISBN | 3-540-61795-7 |
   | Descrizione fisica | xi, 332 p. ; 24 cm |
   | Collana | Lecture Notes in Mathematics ; 1637 |
   | Disciplina | 516.3 |
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   | Collocazione | C-20-(1637 |
   | Lingua di pubblicazione | Inglese |
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2. | | |
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   | Record Nr. | UNINA9910483948503321 |
   | Titolo | Applied Mathematics for Environmental Problems / / edited by María Isabel Asensio, Albert Oliver, José Sarrate |
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   | Edizione | [1st ed. 2021.] |
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   | Disciplina | 363.7 |
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   | Soggetti | Mathematics |
   | | Environmental sciences - Mathematics |
   | | Mathematical analysis |
   | | Differential equations |
   | | Earth sciences |
   | | Geography |
   | | Applications of Mathematics |
   | | Mathematical Applications in Environmental Science |
   | | Analysis |
   | | Differential Equations |
   | | Earth and Environmental Sciences |

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Asensio, M.I. et al., PhyFire: an online GIS-integrated wildfire spread simulation tool based on a semiphysical model -- Egorova, V.N. et al., Physical parametrisation of fire-spotting for operational wildfire simulators -- Suárez Molina, D. and Suárez González, J.C., Wind shear forecast in GCLP and GCTS airports -- Costa-Solé, A. et al., One-phase and two-phase flow simulation using high-order HDG and high-order diagonally implicit time integration schemes.
Sommario/riassunto	This book contains some contributions presented at the Applied Mathematics for Environmental Problems minisymposium during the International Congress on Industrial and Applied Mathematics (ICIAM) held July 15-19, 2019 in Valencia, Spain. The first paper addresses a simplified physical wildfire spread model, based on partial differential equations solved with finite element methods and integrated into a GIS to provide a useful and efficient tool. The second paper focuses on one of the causes of the unpredictable behavior of wildfire, fire-spotting, through a statistical approach. The third paper addresses low -level wind shear which represents one of the most relevant hazards during aircraft takeoff and landing. It presents an experimental wind shear alert system that is based on predicting wind velocities obtained from the Harmonie-Arome model. The last paper addresses the environmental impact of oil reservoirs. It presents high-order hybridizable discontinuous Galerkin formulation combined with high-order diagonally implicit Runge-Kutta schemes to solve one-phase and two-phase flow problems through porous media. All the contributions collected in this volume are interesting examples of how mathematics and numerical modelling are effective tools in the field of environmental problems.