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Geomorphological Fluid Mechanics



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Kolumban Hutter, Nina Kirchner



Geomorphological Fluid Mechanics:

Geomorphological Fluid Mechanics N.J. Balmforth, A. Provenzale, 2014-10-05 Geomorphology deals with some of the most striking patterns of nature From mountain ranges and mid ocean ridges to river networks and sand dunes there is a whole family of forms structures and shapes that demand rationalization as well as mathematical description In the various chapters of this volume many of these patterns are explored and discussed and attempts are made to both unravel the reasons for their very existence and to describe their dynamics in quantitative terms Particular focus is placed on lava and mud flows ice and snow dynamics river and coastal morphodynamics and landscape formation Combining a pedagogical approach with up to date reviews of forefront research this volume will serve both postgraduate students and lecturers in search of advanced textbook material and experienced researchers wishing to get acquainted with the various physical and mathematical approaches in a range of closely related research fields

Geomorphological Fluid Mechanics N.J. Balmforth, A. Provenzale, 2001-12-14 Geomorphology deals with some of the most striking patterns of nature From mountain ranges and mid ocean ridges to river networks and sand dunes there is a whole family of forms structures and shapes that demand rationalization as well as mathematical description In the various chapters of this volume many of these patterns are explored and discussed and attempts are made to both unravel the reasons for their very existence and to describe their dynamics in quantitative terms Particular focus is placed on lava and mud flows ice and snow dynamics river and coastal morphodynamics and landscape formation Combining a pedagogical approach with up to date reviews of forefront research this volume will serve both postgraduate students and lecturers in search of advanced textbook material and experienced researchers wishing to get acquainted with the various physical and mathematical approaches in a range of closely related research fields

Environmental Fluid Mechanics Wolfgang Rodi, Markus Uhlmann, 2012-05-28 This book contains the written versions of invited lectures presented at the Gerhard H Jirka Memorial Colloquium on Environmental Fluid Mechanics held June 3 4 2011 in Karlsruhe Germany Professor Jirka was widely known for his outstanding work in Environmental Fluid Mechanics and 23 eminent world leading experts in this field contributed to

Arid Dune Ecosystems Siegmund W. Breckle, Aaron Yair, Maik Veste, 2008-07-19 Sand dune dynamics plays a key role in many arid deserts This volume provides a synthesis of a specific sand dune ecosystem the Nizzana site in the Negev Desert Describing its climate and geophysical geochemical properties of soils geological history flora and fauna and past present land use patterns it elucidates ecological and geomorphological processes and their interrelations based on long term monitoring in situ experiments and satellite imagery Particular attention is drawn to the impact of the topsoil biological crust in controlling water availability at local regional scales The interdisciplinary approach adopted in this case study offers a good example of a highly complex and dynamic system which could easily be applied to other sandy ecosystems This is a valuable source of information for soil ecologists and microbiologists conservation biologists desert ecologists and geographers

geomorphologists soil scientists and climatologists lecturers policy makers and others interested in deserts and desertification

Environmental Geomechanics Bernhard A. Schrefler, Pierre Delage, 2013-03-28 This book covers a range of topics that are of increasing importance in engineering practice natural hazards pollution and environmental protection through good practice The first half of the book deals with natural risk factors of both natural and human origin that should be considered subsidence accidental infiltration soil instability rockslides and mudslides debris flow and degradation of buildings and monuments due to pollution and climactic effects for example These problems are highlighted and it is shown that a combination of sophisticated numerical techniques and extensive experimental investigations are necessary in order to effectively tackle these problems The second half of the book is devoted to the use of polluted sites and associated problems a topic of growing significance given the increasing reclamation of land from abandoned industrial sites for urban development over the last 20 years Different types of oil pollution and decontamination methods are described followed by a discussion of waste management and detailed coverage of confinement liners used in surface waste disposal

Physics of Lakes Kolumban Hutter, Irina P. Chubarenko, Yongqi Wang, 2014-03-26 The ongoing thread in this volume of Physics of Lakes is the presentation of different methods of investigation for processes taking place in real lakes with a view to understanding lakes as components of the geophysical environment It is divided into three parts Part I is devoted to numerical modeling techniques and demonstrates that i wind induced currents in depth integrated models can only adequately predict current fields for extremely shallow lakes and ii that classical multi layered simulation models can only adequately reproduce current and temperature distributions when the lake is directly subjected to wind but not the post wind oscillating response This makes shock capturing discretization techniques and Mellor Yamada turbulence closure schemes necessary as well as extremely high grid resolution to reduce the excessive numerical diffusion Part II is devoted to the presentation of principles of observation and laboratory experimental procedures It details the principles of operation for current temperature conductivity and other sensors applied in the field It also discusses the advantages and limitations of common measuring methods like registration from stationary or drifting buoys sounding and profiling from a boat etc Questions of data accuracy quality and reliability are also addressed The use of laboratory experiments on a rotating platform is based on an exposition of dimensional analysis and model theory and illustrated using Lake Constance as an example Part III gives an account of the dynamics of lake water as a particle laden fluid which coupled with the transport of the bottom sediments leads to morphodynamic changes of the bathymetry in estuarine and possibly whole lake regions An elegant spatially one dimensional theory makes it possible to derive analytic solutions of deltaic formations which are corroborated by laboratory experiments A full three dimensional description of the evolution of the alluvial bathymetry under prescribed tributary sediment input indicates a potential subject for future research

Geomorphic Analysis of River Systems Kirstie A. Fryirs, Gary J. Brierley, 2012-09-26 Filling a niche in the geomorphology teaching market this introductory book is built around a 12 week

course in fluvial geomorphology Reading the landscape entails making sense of what a riverscape looks like how it works how it has evolved over time and how alterations to one part of a catchment may have secondary consequences elsewhere over different timeframes These place based field analyses are framed within their topographic climatic and environmental context Issues and principles presented in the first part of this book provide foundational understandings that underpin the approach to reading the landscape that is presented in the second half of the book In reading the landscape detective style investigations and interpretations are tied to theoretical and conceptual principles to generate catchment specific analyses of river character behaviour and evolution including responses to human disturbance This book has been constructed as an introductory text on river landscapes providing a bridge and or companion to quantitatively framed or modelled approaches to landscape analysis that are addressed elsewhere Key principles outlined in the book emphasise the importance of complexity contingency and emergence in interpreting the character behaviour and evolution of any given system The target audience is second and third year undergraduate students in geomorphology hydrology earth science and environmental science as well as river practitioners who use geomorphic understandings to guide scientific and or management applications The primary focus of Kirstie and Gary s research and teaching entails the use of geomorphic principles as a tool with which to develop coherent scientific understandings of river systems and the application of these understandings in management practice Kirstie and Gary are co developers of the River Styles Framework and Short Course that is widely used in river management decision making and training Additional resources for this book can be found at www.wiley.com/go/fryirs riversystems

Hydrodynamics VI: Theory and Applications Liang Cheng,Kervin Yeow,2004-10-15 The International Conference on Hydrodynamics is an increasingly important event at which academics researchers and practitioners can exchange new ideas and their research findings This volume contains papers from the 2004 conference covering a wide range of subjects within hydrodynamics including traditional engineering architectural and mechanical issues as well as significant new technologies and methodologies such as bio fluid mechanics and computational fluid mechanics

Buoyancy-Driven Flows Eric P. Chassignet,Claudia Cenedese,Jacques Verron,2012-03-05 This book summarizes buoyancy driven flows for advanced students and researchers in oceanography geophysical fluid dynamics atmospheric science and Earth science

Detecting, Modelling and Responding to Effusive Eruptions A.J.L. Harris,T. De Groeve,F. Garel,S.A. Carn,2016-06-28 For effusive volcanoes in resource poor regions there is a pressing need for a crisis response chain bridging the global scientific community to allow provision of standard products for timely humanitarian response As a first step in attaining this need this Special Publication provides a complete directory of current operational capabilities for monitoring effusive eruptions This volume also reviews the state of the art in terms of satellite based volcano hot spot tracking and lava flow simulation These capabilities are demonstrated using case studies taken from well known effusive events that have occurred worldwide over the last two decades at volcanoes such as Piton de la Fournaise Etna Stromboli

and Kilauea We also provide case type response models implemented at the same volcanoes as well as the results of a community wide drill used to test a fully integrated response focused on an operational hazard GIS Finally the objectives and recommendations of the Risk Evaluation Detection and Simulation during Effusive Eruption Disasters working group are laid out in a statement of community needs by its members

Fluid and Thermodynamics Kolumban Hutter, Yongqi Wang, 2016-07-18 In this book fluid mechanics and thermodynamics F T are approached as interwoven not disjoint fields The book starts by analyzing the creeping motion around spheres at rest Stokes flows the Oseen correction and the Lagerstrom Kaplun expansion theories are presented as is the homotopy analysis 3D creeping flows and rapid granular avalanches are treated in the context of the shallow flow approximation and it is demonstrated that uniqueness and stability deliver a natural transition to turbulence modeling at the zero first order closure level The difference quotient turbulence model DQTM closure scheme reveals the importance of the turbulent closure schemes non locality effects Thermodynamics is presented in the form of the first and second laws and irreversibility is expressed in terms of an entropy balance Explicit expressions for constitutive postulates are in conformity with the dissipation inequality Gas dynamics offer a first application of combined F T The book is rounded out by a chapter on dimensional analysis similitude and physical experiments

Dynamic Response of Granular and Porous Materials under Large and Catastrophic Deformations Kolumban Hutter, Nina Kirchner, 2013-02-26 A Sonderforschungsbereich SFB is a programme of the Deutsche Forschungsgemeinschaft to financially support a concentrated research effort of a number of scientists located principally at one University Research Laboratory or a number of these situated in close proximity to one another so that active interaction among individual scientists is easily possible Such SFB are devoted to a topic in our case Deformation and Failure in Metallic and Granular Material and financing is based on a peer reviewed proposal for three now four years with the intention of several prolongations after evaluation of intermediate progress and continuation reports An SFB is terminated in general by a formal workshop in which the state of the art of the achieved results is presented in oral or I and poster communications to which also guests are invited with whom the individual project investigators may have collaborated Moreover a research report in book form is produced in which a number of articles from these lectures are selected and collected which present those research results that withstood a rigorous reviewing process with generally two or three referees The theme deformation and failure of materials is presented here in two volumes of the Lecture Notes in Applied and Computational Mechanics by Springer Verlag and the present volume is devoted to granular and porous continua The complementary volume Lecture Notes in Applied and Computational Mechanics vol 10 Eds K HUTTER H *Conceptual Approach to the Study of Snow Avalanches* Maurice Meunier, Christophe Ancey, Didier Richard, **Mathematical Geoscience** Andrew Fowler, 2011-06-21 Mathematical Geoscience is an expository textbook which aims to provide a comprehensive overview of a number of different subjects within the Earth and environmental sciences Uniquely it treats its subjects from the perspective of mathematical modelling

with a level of sophistication that is appropriate to their proper investigation The material ranges from the introductory level where it can be used in undergraduate or graduate courses to research questions of current interest The chapters end with notes and references which provide an entry point into the literature as well as allowing discursive pointers to further research avenues The introductory chapter provides a condensed synopsis of applied mathematical techniques of analysis as used in modern applied mathematical modelling There follows a succession of chapters on climate ocean and atmosphere dynamics rivers dunes landscape formation groundwater flow mantle convection magma transport glaciers and ice sheets and sub glacial floods This book introduces a whole range of important geoscientific topics in one single volume and serves as an entry point for a rapidly expanding area of genuine interdisciplinary research By addressing the interplay between mathematics and the real world this book will appeal to graduate students lecturers and researchers in the fields of applied mathematics the environmental sciences and engineering

Debris-flow Hazards and Related Phenomena Matthias Jakob, Oldrich Hungr, 2007-12-26 With climate change and deforestation debris flows and debris avalanches have become the most significant landslide hazards in many countries In recent years there have been numerous debris flow avalanches in Southern Europe South America and the Indian Subcontinent resulting in major catastrophes and large loss of life This is therefore a major high profile problem for the world's governments and for the engineers and scientists concerned Matthias Jakob and Oldrich Hungr are ideally suited to edit this book Matthias Jakob has worked on debris flow for over a decade and has had numerous papers published on the topic as well as working as a consultant on debris flow for municipal and provincial governments Oldrich Hungr has worked on site investigations on debris flow avalanches and rockfall with emphasis on slope stability analysis and evaluation of risks to roads in built up areas He has also developed mathematical models for landslide dynamic analysis They have invited world renowned experts to join them in this book

Cellular Automata Stefania Bandini, Sara Manzoni, Hiroshi Umeo, Giuseppe Vizzari, 2010-09-20 This book constitutes the refereed proceedings of the 9th International Conference on Cellular Automata for Research and Industry ACRI 2010 held in Ascoli Piceno Italy in September 2010 The first part of the volume contains 39 revised papers that were carefully reviewed and selected from the main conference they are organized according to six main topics theoretical results on cellular automata modeling and simulation with cellular automata CA dynamics control and synchronization codes and cryptography with cellular automata cellular automata and networks as well as CA based hardware The second part of the volume comprises 35 revised papers dedicated to contributions presented during ACRI 2010 workshops on theoretical advances specifically asynchronous cellular automata and challenging application contexts for cellular automata crowds and CA traffic and CA and the international workshop of natural computing

NBS Special Publication, 1963 Sustainable Development in Mountain Regions Georgi Zhelezov, 2015-12-23 This second edition of the book Sustainable Development of Mountain Regions Southeastern Europe integrates the scientific results and expertise of the researchers from the countries in

Southeastern Europe The book consists of updated information for the topics observed in first edition and several new chapters with analysis of some problems in the mountain regions of four new for the edition countries in Southeastern European space The general themes in the book are related to Global problems and mountain regions Nature resources and land use in mountain regions Social economic and regional problems of mountain regions Nature protection conservation and monitoring and Networks and strategies for mountain regions The key topics for discussion are Natural resources and land use in mountain regions Sustainable social and economic development of the mountain regions Natural disasters and risk prevention Spatial modeling and planning Nature protection monitoring and conservation Politics and sustainable practices for development of mountain regions Transborder and regional cooperation Mountain regions in Southeastern Europe are characterized by unique landscape and biological diversity and great economic potential They have function as a living space and provide different groups of ecosystem and landscape services In social and economic aspects these regions are one of the poorest in Southeastern European countries with unused potential Human ecological and economic problems arising in various mountain regions have the same basic characteristics irrespective of the country Some mountain regions are subject to specific for the conditions of the mountain and country policy for planning development and mountain population promotion The general goal is development of whole economy and the efficient management of natural resources and prevention of natural and technological disasters The mountain regions are one of the most threatened landscape systems in Southeastern Europe Understanding the importance of the mountain regions and conservation of the natural heritage require scientific and institutional cooperation at all levels

Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools Kyoji Sassa,Binod Tiwari,Ko-Fei Liu,Mauri McSaveney,Alexander Strom,Hendy Setiawan,2018-01-31 This interactive book presents comprehensive information on the fundamentals of landslide types and dynamics while also providing a set of PPT PDF and text tools for education and capacity development It is the second part of a two volume work created as the core activity of the Sendai Partnerships the International Consortium of Landslides The book will be regularly updated and improved over the coming years based on responses from users and lessons learned during its application Hydraulic Research in the United States ,1961

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