



JAN DE PLOEY (ED.)

*RAINFALL SIMULATION
RUNOFF AND
SOIL EROSION*

CATENA SUPPLEMENT 4

Rainfall Simulation Runoff And Soil Erosion Catena Supplement 4

Martin Evans, Jeff Warburton



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Soil Erosion Danilo Godone, Silvia Stanchi, 2011-11-21 Soil erosion affects a large part of the Earth surface and accelerated soil erosion is recognized as one of the main soil threats compromising soil productive and protective functions The land management in areas affected by soil erosion is a relevant issue for landscape and ecosystems preservation In this book we collected a series of papers on erosion not focusing on agronomic implications but on a variety of other relevant aspects of the erosion phenomena The book is divided into three sections i various implications of land management in arid and semiarid ecosystems ii erosion modeling and experimental studies iii other applications e g geoscience engineering The book covers a wide range of erosion related themes from a variety of points of view assessment modeling mitigation best practices etc *Catena Supplement* ,1988

Environmental Management Handbook, Second Edition - Six Volume Set Sven Erik Jorgensen, Brian D. Fath, 2022-07-30 Bringing together a wealth of knowledge the Handbook of Environmental Management Second Edition gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about pollution and management issues This six volume set is a reimagining of the award winning Encyclopedia of Environmental Management published in 2013 and features insights from more than 500 contributors all experts in their fields The experience evidence methods and models used in studying environmental management is presented here in six stand alone volumes arranged along the major environmental systems Features of the new edition The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting edge topics on ecosystem services resilience sustainability food energy water nexus socio ecological systems and more Provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how to best manage them Includes the most important problems and solutions facing environmental management today

Geomorphology of Desert Environments Anthony J. Parsons, A. D. Abrahams, 2009-03-20 About one third of the Earth s land surface experiences a desert climate and this area supports approximately 15% of the planet s population This percentage continues to grow and with this growth comes the need to acquire and apply an understanding of desert geomorphology Such an understanding is vital in managing scarce and fragile resources and in mitigating natural hazards This authoritative reference book is comprehensive in its coverage of the geomorphology of desert environments and is arranged thematically It begins with an overview of global deserts proceeds through treatments of weathering hillslopes rivers piedmonts lake basins and aeolian surfaces and concludes with a discussion of the role of climatic change Written by a team of international authors all of whom are active in the field the chapters cover the spectrum of desert geomorphology

Managing Soils and Terrestrial Systems Brian D. Fath, Sven Erik Jorgensen, 2020-07-29 Bringing together a wealth of knowledge Environmental Management Handbook Second Edition gives a comprehensive overview of environmental problems their sources their

assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about environmental problems and their corresponding management issues This six volume set is a reimagining of the award winning Encyclopedia of Environmental Management published in 2013 and features insights from more than 400 contributors all experts in their field The experience evidence methods and models used in studying environmental management are presented here in six stand alone volumes arranged along the major environmental systems Features The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting edge topics on ecosystem services resilience sustainability food energy water nexus socio ecological systems and more Provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how to best manage them Includes the most important problems and solutions facing environmental management today In this third volume Managing Soils and Terrestrial Systems the general concepts and processes of the geosphere with its related soil and terrestrial systems are introduced It explains how these systems function and provides strategies on how to best manage them It serves as an excellent resource for finding basic knowledge on the geosphere systems and includes important problems and solutions that environmental managers face today This book practically demonstrates the key processes methods and models used in studying environmental management Agricultural Nonpoint Source Pollution A. Giorgini,F. Zingales,2013-10-22 This volume contains most of the scientific contributions to the workshop Prediction of Agricultural Nonpoint Source Pollution Model Selection and Application held in Venice in the historic Ca Vendramin Calergi in June 1984 Other contributions of specialists who were not able to attend the workshop have also been included in an attempt to make the work more complete It is hoped that this collection will be useful to planners who operate in the field of agricultural diffuse source pollution since several contributions are state of the art presentations and others are specialized studies by American and European researcher **Geomorphology of Upland Peat** Martin Evans,Jeff Warburton,2011-03-29 The Geomorphology of Upland Peat offers a detailed synthesis of existing literature on peat erosion incorporating new research ideas and data from two leading experts in the field Presents the most detailed and current work to date Written in a style that is both intelligent and accessible Fully illustrated with original drawings and photographs Relevant and information for a broad audience working on organic sediments in various environments *Monitoring and Modelling Dynamic Environments* Alan P. Dykes,Mark Mulligan,John Wainwright,2015-07-17 The Times Obituaries 4 August 2008 reported that John Thornes was one of the most eminent and influential physical geographers of his generation John s keen interest in understanding landform processes and evolution was furthered through a variety of methods and informed across a range of disciplinary boundaries In particular he pushed for better integration of monitoring theoretical and simulation modelling field and laboratory experimentation and remote sensing techniques Although dominated by an interest in the Mediterranean region and problems of land degradation his research activities ranged across a number of time scales

and with other environmental perspectives This collection of papers reflects this wide range of John s interests through the recent work of scientists and professionals most strongly influenced by his rigorous training or leadership The thematic focus of the book which runs through all of the main contributions is the integration of different methodologies and the application of this approach to improved understanding of natural systems and the development of appropriate strategies for environmental and resource management Short overviews of John s contributions to geomorphological research are also presented to provide context for the origins of this book

Environmental Issues in the Mediterranean John B. Thornes, John Wainwright, 2004-03 The Mediterranean has been subject to changing human settlement and land use patterns for millennia This book reviews both physical and social aspects of this region in relation to its environment

Environmental Reconstruction in Mediterranean Landscape Archaeology Philippe Leveau, Kevin Walsh, Frederic Tremont, 2016-10-31 Contents include Introduction K Walsh Palynology S Bottema A database for the palynological recording of human activity V Andrieu E Brugiapaglia R Cheddadi M Reille and J L de Beaulieu The contribution of anthracology J L Vernet Dendroclimatology F Guibal Techniques in Landscape Archaeology A G Brown L apport de la micromorphologie des sols N F doroff Reconstructing past soil environments R S Shiel The Geochemistry of Soil Sediments D D Gilbertson and J P Grattam Searching the Ports of Troy E Zanaggar M Timpson S Yazvenko and H Leiermann The pontine region in central Italy P Attema J Delvigne and B J Haagsma Population pressure on agricultural resources in Karstic landscapes P Novacovic H Simoni and B Music La Pianura padana centrale tra il Bronzo Medio ed il Bronzo finale M Cremaschi The ancient ports of Marseille and Fos Provence southern France C Vella C Morhange and M Provansal The evolution of field systems in the middle Rh ne valley J F Berger and C Jung La l nea de Costa en poca hist rica en el Golfo de Valencia P Carmona The Vall e des Baux Southern France P Leveau The tang de Berre southern France F Tr ment Geoarchaeology in mediterranean landscape archaeology G Barker and J Bintliff

Water, Development and the Environment William James, 1992-03-24 Water Development and the Environment presents an impressive compilation of ideas addressing the most pressing problems facing the world today Topics discussed include sustainable development water scarcity urban water pollution water resources management and management of landscape interventions The authors discuss new philosophies and procedures and provide examples of the environmental impact of water development particularly landscape changes

Australian Journal of Soil Research ,2009

Land Degradation Anthony Chisholm, Anthony H. Chisholm, Robert Dumsday, 1987 This book presents a broad multi disciplinary perspective on the challenge of problems of degrading land

Physical Geography ,1990

Biological Resource Management in Agriculture Innovative Soil-Plant Systems for Sustainable Agricultural Practices OECD, The Scientific and Technical Research Council of Turkey, 2003-03-31 Proceedings of a conference on innovative systems for preserving the quality of soil used in agriculture

Understanding and preventing soil erosion Dr Manuel Seeger, 2024-08-20 Reviews current understanding of the mechanisms of soil erosion focussing on water based and wind

based erosion processes Considers the effectiveness of mitigation measures to reduce soil erosion including buffer strips zero tillage and cover crops Addresses recent advances in techniques used to measure predict track and model soil erosion including digital soil mapping and proximal instrumental techniques Watershed Erosion Processes Tongxin

Zhu,Xiangzhou Xu,2021-09-29 This monograph is a fundamental study of watershed erosion and runoff processes It utilizes decades of soil erosion data to take a comprehensive and balanced approach in covering various watershed erosion processes While there are many works on soil erosion and conservation this book fills the gaps in previously published research by focusing more on mass movement gully erosion soil piping tunnel erosion and the spatial interactions of different erosion processes Additionally the book examines erosion processes in extreme rainfall events something typically absent in short term studies but discussed in detail here as the book draws on 60 years of research and observations including 30 years of the author s own investigations of erosion under a wide range of rainfall conditions The book is divided into 3 parts and is intended for soil erosion researchers and practitioners and postgraduate students studying soil erosion and water conservation Part 1 opens with a comprehensive and critical review of existing literature on soil erosion processes discusses this book s place among existing literature and examines the major erosion processes rainwash gully erosion tunnel erosion and mass movements including their controlling factors and mechanisms Part 2 explores the spatial interactions of these different erosion processes to provide a prerequisite for effective design of comprehensive soil erosion control measures in a watershed Part 3 evaluates the relative significance of these erosion processes in sediment production the effectiveness of comprehensive soil and water conservation programs and the applications of watershed modelling in determining the impact of land use changes on soil erosion and other ecological processes **Ecological Aspects of Soil and Land Preservation**

Pasko, Olga Anatolievna,Lebedeva, Nadezhda Anatolievna,2024-07-16 Agricultural lands worldwide are deteriorating becoming acidic and losing essential humus content This impacts global food quality and nutrition Causes include extreme natural events and harmful human activities like deforestation The consequences are stark shrinking agricultural land reduced fertility lower crop yields and increased costs Developing nations face food shortages population decline and shortened life expectancy The urgency demands international cooperation legislation and technological advancements Ecological Aspects of Soil and Land Preservation delves into this critical issue emphasizing the need for collective action and sustainable solutions Ecological Aspects of Soil and Land Preservation serves as a resource for scholars students and professionals committed to addressing the crisis This book collects summarizes and analyzes the latest information on agricultural land and forest degradation Beyond that it introduces groundbreaking hypotheses theories and solutions enriching the scientific community s understanding The objective is clear to be an informative resource that not only sheds light on the problem but also catalyzes actionable solutions *Impacts of Biomass Harvesting on Soil Disturbance and Surface Soil Erosion at Sellar Creek in Interior British Columbia* P. R. Commandeur,Mark E. Walmsley,Pacific Forestry

Centre, 1993 Numerous studies have documented the soil disturbance effects of ground based harvesting systems Biomass harvesting in the form of the additional recovery of woody materials normally left on site has the potential for increasing the levels of soil disturbance The objective of this study was to document the impact of biomass harvesting by rubber tired skidders on soils namely soil disturbance and surface soil erosion An increase in soil disturbance in the form of skid trails skidroads and deep and very deep gouges was observed on the biomass harvested plots compared to the conventionally harvested plots Erosion bridges indicated more soil movement on the biomass than the conventional plots Soil erosion volumes trapped behind sediment dams located at the base of the plots were greater on the biomass plots average of 0.38 m³ over 1.77 years than on the conventional plots average of 0.22 m³ However the unharvested plots also recorded accumulation of material where in fact no mineral soil erosion occurred average of 0.15 m³ This was the result of vegetation growth and decay and the accumulation of organic matter Adjusted average erosion values of 0.78 m³ ha year for the biomass plots and 0.37 m³ ha year for the conventional plots are comparable to data obtained from studies conducted on clearcut and burned sites in the Oregon Cascades These erosion figures are considered moderate and numerous site factors help explain this observed response Rainfall simulation experiments conducted at the site indicated that infiltration rates on skidroads and fireguards are generally greater than 1.5 cm hour Rainfall intensities 15 minute duration that exceed 1.5 cm hour are expected to occur with a return period of about 1 year at the study site Spring snow melt rates may exceed infiltration capacities especially along compacted low infiltration areas such as skidroads Some overland flow and surface soil erosion is expected to occur elsewhere under similar conditions as those found at the study site Recommendations are given regarding the measurement techniques used in this study

Fundamentals of Geomorphology Roger John Rice, 1988

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