

Free epub Landscapes and geomorphology a very short introduction very short introductions (2023)

Landscapes and Geomorphology: A Very Short Introduction Arid and Semi-Arid Geomorphology Geomorphology Applied Geomorphology Landforms and Geomorphology Anthropogenic Geomorphology Regolith Geology and Geomorphology Applied Geomorphology Fundamentals of Geomorphology The SAGE Handbook of Geomorphology Thresholds in Geomorphology Geographic Information Science and Mountain Geomorphology Soils and Geomorphology The Evolution of Geomorphology Geology and Geomorphology of Barbados Introducing Geomorphology Soils Urban Geomorphology Introduction to Coastal Processes and Geomorphology Anthropogenic Geomorphology Anthropogenic Geomorphology Developments and Applications of Geomorphology Treatise on Geomorphology Geomorphology Aeolian Geomorphology Process Geomorphology Introducing Geomorphology Geomorphology & Time Introduction to Coastal Processes and Geomorphology Geomorphology Encyclopedia of Geomorphology Geology and Geomorphology of Alluvial and Fluvial Fans Applied Geomorphology : a Perspective of the Contribution of Geomorphology to Interdisciplinary Studies and Environmental Mana MOUNTAIN GEOMORPHOLOGY Global Geomorphology Engineering Geology and Geomorphology of Glaciated and Periglaciated Terrains Geomorphological Fieldwork Dynamics and Geomorphology of Mountain Rivers Principles of Geomorphology Geomorphological Hazards and Disaster Prevention

Landscapes and Geomorphology: A Very Short Introduction 2010-08-26 examining what landscape is and how we use a range of ideas and techniques to study it andrew goudie and heather viles demonstrate how geomorphologists have built on classic methods pioneered by some great 19th century scientists to examine our earth

Arid and Semi-Arid Geomorphology 2013-05-27 based on four decades of research by professor andrew goudie this volume provides a state of the art synthesis of our understanding of desert geomorphology it presents a truly international perspective with examples from all over the world extensively referenced and illustrated it covers such topics as the importance of past climatic changes the variability of different desert environments rock breakdown wind erosion and dust storm generation sand dunes fluvial and slope forms and processes the role of the applied geomorphologist in desert development and conservation and the earth as an analogue for other planetary bodies this book is destined to become the classic volume on arid and semi arid geomorphology for advanced students and researchers in physical geography geomorphology earth science sedimentology environmental science and archaeology

Geomorphology 1991 this systematic non mathematical analysis of landforms of the late cenozoic era covers the constructional processes of tectonism and volcanism and the erosional processes of weathering fluvial erosion glaciers wind and waves

Applied Geomorphology 2002-06-14 this is the first book to bring together practical examples from around the world to show how geomorphological evidence can help in effective land utilisation and hazard risk assessment case studies provide important lessons in risk management and experts provide summaries of current research the text also promotes good practice and effective land use and looks at problems caused by misuse of the environment and potential solutions based on geomorphological evidence

Landforms and Geomorphology 1976-01-01 anthropogenic geomorphology studies society s impact on the geographical environment and especially on the earth s surface this volume provides guidance to students discussing the basic topics of anthropogenic geomorphology the chapters cover both its system and its connections with other sciences as well as the way the subject can contribute to tackling today s practical problems the book represents all fields of geomorphology giving an introduction to the diversity of the discipline through examples taken from a range of contexts and periods and focusing on examples from europe it is no accident that anthropogenic geomorphology has been gaining ground within geomorphology itself its results advance not only the theoretical development of the science but can be applied directly to social and economic issues worldwide anthropogenic geomorphology is an integral and expanding part of earth sciences curricula in higher education making this a timely and relevant text

Anthropogenic Geomorphology 2010-04-10 providing fundamental discussion of regolith properties and chemistry this book considers many landscape situations and features whilst linking process to position geochemistry and time presenting information from an australian perspective it provides new insights into the subject which are developed away from the yoke of traditional northern hemisphere ideas and concepts presents a new approach to the problems of understanding regolith geology and landscapes presents the general aspects and principles of regolith chapters present views on landscapes and their evolution the nature of minerals the behaviour of water at a landscape level and the exploration of water behaviour at various scales in regolith materials investigates methods of conveying information about regolith via maps and in gis packages

Regolith Geology and Geomorphology 2001-08-30 the new fourth edition of fundamentals of geomorphology continues to provide a comprehensive introduction to the subject by discussing the latest developments in the field as well as covering the basics of earth surface forms and processes the revised edition has an improved logically cohesive structure added recent material on quaternary environments and landscapes landscape evolution and tectonics as well as updated information on fast changing

areas such as the application of dating techniques digital terrain modelling historical contingency preglacial landforms neocatastrophism and biogeomorphology the book begins with a consideration of the nature of geomorphology process and form history and geomorphic systems and moves on to discuss endogenic processes structural landforms associated with plate tectonics and those associated with volcanoes impact craters and folds faults and joints exogenic processes landforms resulting from or influenced by the exogenic agencies of weathering running water flowing ice and meltwater ground ice and frost the wind and the sea landforms developed on limestone and long term geomorphology a discussion of ancient landforms including palaeosurfaces stagnant landscape features and evolutionary aspects of landscape change featuring over 400 illustrations diagrams and tables fundamentals of geomorphology provides a stimulating and innovative perspective on the key topics and debates within the field of geomorphology written in an accessible and lively manner and providing guides to further reading chapter summaries and an extensive glossary of key terms this is an indispensable undergraduate level textbook for students of physical geography

Applied Geomorphology 1977 geomorphology is the study of the earth's diverse physical land surface features and the dynamic processes that shape these features examining natural and anthropogenic processes the sage handbook of geomorphology is a comprehensive exposition of the fundamentals of geomorphology that examines form process and applications of the discipline organized into five substantive sections the handbook is an overview of foundations and relevance including the nature and scope of geomorphology the origins and development of geomorphology the role and character of theory in geomorphology geomorphology and environmental management and geomorphology and society techniques and approaches including observations and experiments geomorphological mapping the significance of models process and form dating surfaces and sediment remote sensing in geomorphology gis in geomorphology biogeomorphology human activity process and environment including the evolution of regolith weathering fluids flows and fluxes sediment transport and deposition hill slopes riverine environments glacial geomorphology periglacial environments coastal environments aeolian environments tropical environments karst and karst processes environmental change including landscape evolution and tectonics interpreting quaternary environments environmental change disturbance and responses to geomorphic systems conclusion including challenges and perspectives and a concluding review the handbook has contributions from 48 international authors and was initially organized by the international association of geomorphologists this will be a much used and much cited reference for researchers in geomorphology physical geography and the environmental sciences

Fundamentals of Geomorphology 2016-11-21 this book first published in 1980 is a timely and comprehensive appraisal of thresholds in geomorphology the papers arising from the 9th binghamton geomorphology symposium form the cornerstone of a subject that is increasingly important in geomorphology this book analyses the historical background to thresholds and geomorphology as well as fluvial landforms hydrogeologic regimes and other processes and the impact of man

The SAGE Handbook of Geomorphology 2011-06-13 from the reviews bishop and schroder both univ of nebraska at omaha have brought together an impressive group of practitioners in the relatively new application of geographic information science to mountain geomorphology in doing so they have produced valuable first overall coverage of a high tech approach to mountain three dimensional research more than 40 contributing authors discuss a wide range of related aspects the book is well bound and well produced each chapter provides an extensive source of references the numerous line drawings are clearly reproduced although the mediocre quality of photographic reproduction limits the value of air photographs and satellite images as is characteristic of many edited collections there is some variation in chapter quality some of the writing is so dense that it requires minute concentration one chapter for instance has 14 pages of references from a total of 2406 pages

nevertheless this is a vital compendium for a rapidly expanding field of research summing up recommended upper division undergraduates through professionals j d ives choice march 2005

Thresholds in Geomorphology 2020-05-10 soils and geomorphology now in its third edition remains popular among soil scientists geomorphologists geologists geographers and archaeologists while retaining the useful factors of soil formation format it has been extensively revised incorporating a considerable amount of new research and offering a greater number of topics and examples particularly in the chapters weathering and soil development with time and topography soil relations with time in different climatic settings greater emphasis is placed on the role of dust in pedogenesis and new data are included on tropical soil development global soil loess relations neotectonics and reduction processes the text discusses field applications such as the use of soils in recognizing climate change estimating the age of geological deposits and dealing with environmental problems such as acid rain new how to appendices on soil descriptions and calculating the profile development index are also included soils and geomorphology is an ideal text for advanced undergraduate and graduate students in courses on pedology soil science quaternary geology archeology and sedimentary petrology

Geographic Information Science and Mountain Geomorphology 2004-06-30 an expanded and updated version of the history of geomorphology eminent contributors from each nation analyze and attempt to describe the evolution of national thought about landscapes line drawings and maps illustrate critical points in the various narratives

Soils and Geomorphology 1984 cd rom version contents supplementary materials to geology and geomorphology of barbados

The Evolution of Geomorphology 1993-10-12 adrian harvey introduces the varying geomorphological forces and differing timescales which combine to shape the surface of the earth

Geology and Geomorphology of Barbados 2012 soils genesis and geomorphology is a comprehensive and accessible textbook on all aspects of soils the book s introductory chapters on soil morphology physics mineralogy and organisms prepare the reader for the more advanced and thorough treatment that follows theory and processes of soil genesis and geomorphology form the backbone of the book rather than the emphasis on soil classification that permeates other less imaginative soils textbooks this refreshingly readable text takes a truly global perspective with many examples from around the world sprinkled throughout replete with hundreds of high quality figures and a large glossary this book will be invaluable for anyone studying soils landforms and landscape change soils genesis and geomorphology is an ideal textbook for mid to upper level undergraduate and graduate level courses in soils pedology and geomorphology it will also be an invaluable reference text for researchers

Introducing Geomorphology 2012 urban geomorphology landforms and processes in cities addresses the human impacts on landscapes through occupation urbanization and development as a contribution to anthropogenic geomorphology or anthropogeomorphology this includes a focus on land clearance conservation issues pollution decay and erosion urban climate and anthropogenic climate change these topics as well as others are considered to shed more light on the human transformation of natural landscapes and the environmental impacts and geomorphological hazards that environmental change can encompass its multidisciplinary approach is appropriate for audiences from a range of disciplines and professions from geologists conservationists and land use planners to architects and developers urban geomorphology not only transcends disciplines but also covers varied spatial temporal frameworks and presents a diverse set of approaches and solutions to human impacts and geomorphological hazards within urban landscapes features a cross disciplinary perspective highlighting the importance of the geosciences to environmental science engineering and public policy

built environment as the location of concentrated human impacts and change provides an international scope including case studies from urban areas around the world

Soils 2005-05-05 a complete guide to coastal processes and their related features for undergraduate students

Urban Geomorphology 2018-07-17 anthropogenic geomorphology studies society's impact on the geographical environment and especially on the earth's surface this volume provides guidance to students discussing the basic topics of anthropogenic geomorphology the chapters cover both its system and its connections with other sciences as well as the way the subject can contribute to tackling today's practical problems the book represents all fields of geomorphology giving an introduction to the diversity of the discipline through examples taken from a range of contexts and periods and focusing on examples from Europe it is no accident that anthropogenic geomorphology has been gaining ground within geomorphology itself its results advance not only the theoretical development of the science but can be applied directly to social and economic issues worldwide anthropogenic geomorphology is an integral and expanding part of earth sciences curricula in higher education making this a timely and relevant text

Introduction to Coastal Processes and Geomorphology 2010 anthropogenic geomorphology studies society's impact on the geographical environment and especially on the earth's surface this volume provides guidance to students discussing the basic topics of anthropogenic geomorphology the chapters cover both its system and its connections with other sciences as well as the way the subject can contribute to tackling today's practical problems the book represents all fields of geomorphology giving an introduction to the diversity of the discipline through examples taken from a range of contexts and periods and focusing on examples from Europe it is no accident that anthropogenic geomorphology has been gaining ground within geomorphology itself its results advance not only the theoretical development of the science but can be applied directly to social and economic issues worldwide anthropogenic geomorphology is an integral and expanding part of earth sciences curricula in higher education making this a timely and relevant text

Anthropogenic Geomorphology 2014-11-02 the last decade has seen a remarkable increase in the application of geomorphology for numerous projects and investigations geomorphology is now viewed as an indispensable partner of engineering and geology in the world of applied science for a discipline with few independent theories of its own geomorphology has become a cosmopolitan science drawing on many topics from allied sciences to compile a list of successful and viable applications and contributions would be an arduous chore if not an impossible task instead we have compiled a set of invited papers that represent some of the practical developments and uses of geomorphology over the past decade such a compilation of papers will reflect our own backgrounds biases associations and personal and professional experiences we make no apologies for the topics omitted but recognize that this volume could be prohibitively large if all the subdivisions of geomorphology were equally and fully covered our goal in assembling the papers for this volume was to emphasize the concepts principles and applications of geomorphology while techniques procedures and practical applications are stressed the reason for each investigation is as important as the method employed this book therefore represents the methods used and reasons for applying geomorphology where case studies are used they serve as examples that can be applied in related situations similar settings and other locations the authors have successfully addressed this goal in a broad selection of chapter topics

Anthropogenic Geomorphology 2011-07-23 the changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline the number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science

and others has expanded dramatically as more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult the fourteen volumes of this treatise on geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of earth's diverse surfaces this treatise on geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that educators and students researchers will find useful geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding editor in chief prof j f shroder of the university of nebraska at omaha is past president of the geog section of the geological society of america and present trustee of the gsa foundation while being well respected in the geomorphology research community and having won numerous awards in the field a host of noted international geomorphologists have contributed state of the art chapters to the work readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the world expert volume editors and by the editor in chief himself no other reference work exists in the area of geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece from the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned

Developments and Applications of Geomorphology 2012-12-06 geomorphology a canadian perspective 2e brings a wealth of canadian examples to bear on the scientific study of landforms landscapes and earth surface processes this comprehensive text introduces students to the two pronged analytical study of geomorphology process and history chapters include discussions of weathering slope movement glaciers wind and water transport coastlines karst and the human dimensions of landform change and formation

Treatise on Geomorphology 2013-02-27 a revised introduction to aeolian geomorphology written by noted experts in the field the new revised and updated edition of aeolian geomorphology offers a concise and highly accessible introduction to the subject the text covers the topics of deserts and coastlines as well as periglacial and planetary landforms the authors review the range of aeolian characteristics that include soil erosion and its consequences continental scale dust storms sand dunes and loess aeolian geomorphology explores the importance of aeolian processes in the past and the application of knowledge about aeolian geomorphology in environmental management the new edition includes contributions from eighteen experts from four continents all the chapters demonstrate huge advances in observation measurement and mathematical modelling for example the chapter on sand seas shows the impact of greatly enhanced and accessible remote sensing and the chapter on active dunes clearly demonstrates the impact of improvements in field techniques other examples reveal the power of greatly improved laboratory techniques this important text offers a comprehensive review of aeolian geomorphology contains 2006 2011 iveco daily

an international panel of eighteen experts in the field includes the results of the most recent research on the topic filled with illustrative examples that demonstrate the advances in laboratory approaches written for students and professionals in the field aeolian geomorphology provides a comprehensive introduction to the topic in twelve new chapters with contributions from noted experts in the field

Geomorphology 2004 a study of the processes that form the landscape of the earth the text is mainly orientated to geomorphology courses and is intended for students of geology earth science and geography this new edition provides increased coverage of planetary geomorphology and puts greater emphasis on tectonic geomorphology

Aeolian Geomorphology 2019-03-18 adrian harvey introduces the varying geomorphological forces and differing timescales which combine to shape the surface of the earth

Process Geomorphology 1995 time is a central feature of geomorphological research and is used in this book first published in 1977 to provide a conceptual framework within which to consider and compare old and new approaches to the field of geomorphology the emphasis is on providing not merely a manual of current research but an introduction to isolate ideas and concepts stimulate critical discussion and examine some of the problems that are involved in dealing with data

Introducing Geomorphology 2022 grounded in current research this second edition has been thoroughly updated featuring new topics global examples and online material written for students studying coastal geomorphology this is the complete guide to the processes at work on our coastlines and the features we see in coastal systems across the world

Geomorphology & Time 2020-05-11 this textbook provides a modern quantitative and process oriented approach to equip students with the tools to understand geomorphology insight into the interpretation of landscapes is developed from basic principles and simple models and by stepping through the equations that capture the essence of the mechanics and chemistry of landscapes boxed worked examples and real world applications bring the subject to life for students allowing them to apply the theory to their own experience the book covers cutting edge topics including the revolutionary cosmogenic nuclide dating methods and modeling highlights links to other earth sciences through up to date summaries of current research and illustrates the importance of geomorphology in understanding environmental changes setting up problems as a conservation of mass ice soil or heat this book arms students with tools to fully explore processes understand landscapes and to participate in this rapidly evolving field

Introduction to Coastal Processes and Geomorphology 2019-09-19 the first such reference work in thirty five years this is a comprehensive guide to both specific landforms and the major types of processes that create them this two volume set provides a historical overview of the field while exploring recent key discoveries about tectonic and climatic changes as well as the use of new techniques such as modeling remote sensing and process measurement written by a team of expert contributors from over thirty countries the nearly 700 alphabetically arranged entries are cross referenced indexed and include up to date suggestions for further reading fully illustrated with over 360 tables and illustrations this will be the definitive reference source for students researchers and practitioners in geomorphology as well as geography earth science sedimentology and environmental science

Geomorphology 2010-06-17 alluvial and fluvial fans are the most widespread depositional landform bordering the margins of highland regions and actively subsiding continental basins across a broad spectrum of tectonic and climatic settings they are significant to the local morphodynamics of mountain regions and also to the evolution of sediment routing systems affecting the propagation and preservation of stratigraphic signals of environmental change over vast areas the volume presents case studies discussing the geology and geomorphology of alluvial and fluvial fans from both active systems and ancient ones presented in the

stratigraphic record it brings together case studies from a range of continents climatic and tectonic settings some introducing innovative monitoring and analysis techniques and it provides an overview of current debates in the field this volume will be of particular interest to geologists geomorphologists sedimentologists and the general reader with an interest in earth science

Encyclopedia of Geomorphology 2004 mountains represent one of the most inspiring and attractive natural features on the surface of the earth visually they dominate the landscape however the increasing realization of the fragility of mountain areas because of changes in land use management and climate combined with an understanding of their importance for water and other natural resources has resulted in a growing interest in mountain environments in recent years hence mountain geomorphology represents a timely and unique contribution to the literature written by a team of international experts this book is divided into three sections which consider historical functional and applied mountain geomorphology from both global and local perspectives historical mountain geomorphology focuses on the evolution of landforms functional mountain geomorphology emphasises the interaction between processes and landforms while applied mountain geomorphology concerns the interrelationships between geomorphological processes and society mountain geomorphology is a valuable source of information for students studying mountain geomorphology and also for academics and research scientists interested in mountain environments

Geology and Geomorphology of Alluvial and Fluvial Fans 2018-07-04 the plate tectonics revolution in the earth sciences has provided a valuable new framework for understanding long term landform development this innovative text provides a comprehensive introduction to the subject of global geomorphology with the emphasis placed on large scale processes and phenomena integrating global tectonics into the study of landforms and incorporating planetary geomorphology as a major component the author discusses the impact of climatic change and the role of catastrophic events on landform genesis and includes a comprehensive study of surface geomorphic processes

Applied Geomorphology : a Perspective of the Contribution of Geomorphology to Interdisciplinary Studies and Environmental Mana 1977 the engineering group of the geological society working party brought together experts in glacial and periglacial geomorphology quaternary history engineering geology and geotechnical engineering to establish best practice when working in former glaciated and periglaciated environments the working party addressed outdated terminology and reviewed the latest academic research to provide an up to date understanding of glaciated and periglaciated terrains this transformative state of the art volume is the outcome of five years of deliberation and synthesis by the working party this is an essential reference text for practitioners students and academics working in these challenging ground conditions the narrative style and a comprehensive glossary and photo catalogue of active and relict sediments structures and landforms make this material relevant and accessible to a wide readership

MOUNTAIN GEOMORPHOLOGY 2014-02-04 geomorphological fieldwork addresses a topic that always remains popular within the geosciences and environmental science more specifically the volume conveys a growing legacy of field based learning for young geomorphologists that can be used as a student book for field based university courses and postgraduate research requiring fieldwork or field schools the editors have much experience of field based learning within geomorphology and extend this to physical geography the topics covered are relevant to basic geomorphology as well as applied approaches in environmental and cultural geomorphology the book integrates a physical human approach to geography but focuses on physical geography and geomorphology from an integrated field based geoscience perspective addresses fluvial and karst landscapes in depth focuses on field based learning as well as educational geomorphology conveys experiential knowledge in international contexts

Global Geomorphology 2014-05-12 the book concentrates on hydrological and geomorphological processes in mountain rivers with the majority of the contributions

focusing on the alps methods and results of research in solid load transport and river bed dynamics are presented by international authors the authors come from earth science and engineering institutions and both practical and theoretical aspects of mountain river research are addressed the book is a valuable guide and source of information on problems of environmental planning and protection river management and hazard assessment

Engineering Geology and Geomorphology of Glaciated and Periglaciated Terrains

2017-10-18 a state of the art assessment of how geomorphology contributes to the comprehension mapping and modelling of hazardous earth surface processes

Geomorphological Fieldwork 2014-12-06

Dynamics and Geomorphology of Mountain Rivers 2008-01-03

Principles of Geomorphology 1969

Geomorphological Hazards and Disaster Prevention 2010-03-04

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