

Geomorphology

- Geomorphology is the study of the physical processes and surface features of the Earth

What happens to the precipitation that falls within a drainage basin?

- The drainage basin is an open system, of inputs, stores, flows and output
- The drainage basin collects precipitation and allows water to seep into the ground through the process of infiltration to become underground water. water is stored in lakes in drainage basins.

Features of a drainage basin

- ✓ Catchment area
- ✓ River system
- ✓ Tributary
- ✓ Watershed
- ✓ River mouth
- ✓ Source
- ✓ Confluence
- ✓ interfluvium
- ✓ water table
- ✓ Ground water
- ✓ Surface run-off
- ✓ infiltration

(NB: Check the definitions in the glossary on the first page)



Geomophology Grade 12 Note

**United States. National Aeronautics
and Space Administration. Scientific
and Technical Information Branch**

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X-Kit Cram Notes Geography Grade 12 HG&SG Anthea Manson, 2005 **X-kit FET Grade 12 GEOGRAPHY**, 2008

Applied Geomorphology R. J. Allison, 2002-06-14 Erstmals wurden in diesem Buch praktische Beispiele geomorphologischer Daten aus der ganzen Welt zusammengetragen um zu zeigen wie sich mit Hilfe dieser Informationen präzise Vorschläge zur Landnutzung und zur Abschätzung von Katastrophenrisiken erarbeiten lassen Fallstudien zeigen wie sich Risiken erkennen lassen Experten kommentieren jeweils den neuesten Stand der Forschung Nicht zuletzt zeigt der Autor auch wann man einen Missbrauch der Umwelt mit geomorphologischen Mitteln korrigieren kann **Tectonic**

Geomorphology of Mountains William B. Bull, 2008-04-15 With a balance of theory and practical applications Tectonic Geomorphology of Mountains is essential reading for research geologists and upper level undergraduate and graduate students in the earth sciences This book describes how tectonic events influence geomorphic processes and explores how landscapes respond to tectonic deformation in the ways in which they are weathered washed and abraded Uses new approaches to enhance theoretical models of landscape evolution and to solve practical problems such as the assessment of earthquake hazards Includes previously unpublished research and theory Examines how to use key landforms as reference levels in changing landscapes estimate rates of mountain range uplift and map seismic shaking caused by prehistorical earthquakes Presents a diverse range of examples from around the world Geomorphology from Space United States.

National Aeronautics and Space Administration. Scientific and Technical Information Branch, 1986 **Fluvial Processes in**

Geomorphology Luna B. Leopold, M. Gordon Wolman, John P. Miller, Ellen E. Wohl, 2020-09-16 A pioneering study that encompasses both field and laboratory research this text explores the landscapes of mountains rivers and seacoasts Topics include weathering climate and erosion New Foreword 1964 edition Geomorphology of the Shenandoah Valley, Virginia, and West Virginia, and Origin of the Residual Ore Deposits John Tilton Hack, 1965 A geomorphological study in which it is assumed that erosion and downwasting of the central Appalachians were continuous and uninterrupted by periods of baseleveling **Open Channel Hydraulics, River Hydraulic Structures and Fluvial Geomorphology** Artur

Radecki-Pawlik, Stefano Pagliara, Jan Hradecky, 2017-09-07 This book presents practical hydraulic and river engineering research along with fluvial geomorphological concepts and links the theoretical and practical knowledge of people working every day with rivers streams and hydraulic structures to fluvial geomorphology Besides providing a guide for professionals this book also provides material for students to acquire the knowledge and skills to rehabilitate rivers streams and waterways

Global Geomorphology Michael A. Summerfield, 2014-05-12 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

Karst Hydrogeology, Geomorphology and Caves Jo De Waele, Francisco Gutierrez, 2022-08-01 Karst Hydrogeology Geomorphology and Caves A Comprehensive Resource Covering All Aspects of Karst Hydrogeology Geomorphology and Caves This essential book covers all physical chemical and geological aspects of karst science It reviews current knowledge on hydrogeology geomorphology and caves in karst based on the vast existing literature and investigations carried out by the authors worldwide The different topics are profusely illustrated with color figures and images from all continents and climates showing the scientific and aesthetic appeal of karst environments The book covers in a systematic way the significant features of karst rocks the chemistry and kinetics of their dissolution the rate and distribution of karst denudation the unique hydrogeology of karst terrains the landforms endemic to karst the morphology of caves and their diverse sedimentary records and the multiple processes that lead to the formation of underground voids Overall the work reflects the increasing recognition of karst as a fundamental part of the Earth's dynamic systems and helps readers understand this multidisciplinary field from a holistic and nuts and bolts perspective Some of the ideas discussed within the book include How karst is gaining importance for human development because of its valuable resources groundwater and associated environmental problems impacts and hazards The enormous technological developments achieved in recent years Recent major breakthroughs in the field and their influence on other scientific disciplines The central role played by karst science for understanding and mitigating global environmental issues global warming depletion of resources human induced hazards For all scientists working in karst and for students and lecturers of karst related programs this book serves as a valuable all in one source It is also a valuable resource for professional hydrogeologists the petroleum industry environmental geologists and of course speleologists the last true geographic explorers in the world

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

X-Kit FET Grade 10 Geography Anthea Manson, Glennis Ravenscroft, 2006

History of Geomorphology and Quaternary Geology R. H. Grapes, 2008 These papers deal with various aspects of the histories of geomorphology and Quaternary geology in different parts of the world They include the origin of the term Quaternary histories of ideas and debates relating to

aspects of fluvial geomorphology glacial geomorphology and glaciation desert dunes and the geology of Australia peneplains in China a palaeo Tokyo Bay in Japan together with biographies of Charles Cotton Valerija epulyt and eslovas Pakuckas that highlight their respective contributions to the disciplines of geomorphology and Quaternary geology **Resources in Education** ,1986-03 Excursions in Geology and History Frank James Pazzaglia,2006-01-01 *Geology of the Pierre Area, South Dakota* Dwight Raymond Crandell,1958 Bibliography of North American Geology ,1957 1919 28 cumulation includes material previously issued in the 1919 20 1935 36 issues and also material not published separately for 1927 28 1929 39 cumulation includes material previously issued in the 1929 30 1935 36 issues and also material for 1937 39 not published separately **Research in Education** ,1974 **Books in Print Supplement** ,1982 Exploring the Geology of the Inland Northwest Reed S. Lewis,Keegan L. Schmidt,2016-05-05 This volume is composed of guides to the lavas of the Columbia River basalts megaflood landscapes of the Channeled Scablands Mesozoic accreted terranes metamorphic Precambrian Belt and pre Belt rocks and other features of this tectonically active region

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