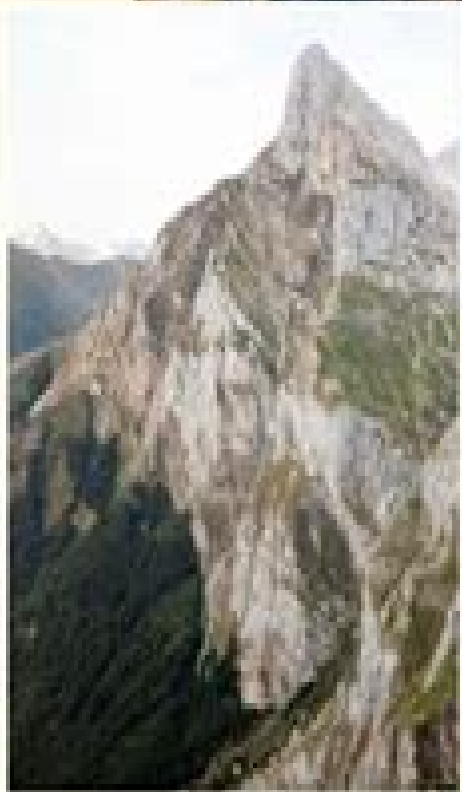




Tectonic Geomorphology Workshop

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Tectonic Geomorphology

Vivek S. Kale



Tectonic Geomorphology:

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of landscape evolution and to solve practical problems such as the assessment of earthquake hazards Includes previously unpublished research and theory Examines how to use key landforms as reference levels in changing landscapes estimate rates of mountain range uplift and map seismic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 **Tectonic Geomorphology** Douglas W. Burbank, Robert S. Anderson, 2011-11-02 Tectonic geomorphology is the study of the interplay between tectonic and surface processes that shape the landscape in regions of active deformation and at time scales ranging from days to millions of years Over the past decade recent advances in the quantification of both rates and the physical basis of tectonic and surface processes have underpinned an explosion of new research in the field of tectonic geomorphology Modern tectonic geomorphology is an exceptionally integrative field that utilizes techniques and data derived from studies of geomorphology seismology geochronology structure geodesy stratigraphy meteorology and Quaternary science While integrating new insights and highlighting controversies from the ten years of research since the 1st edition this 2nd edition of Tectonic Geomorphology reviews the fundamentals of the subject including the nature of faulting and folding the creation and use of geomorphic markers for tracing deformation chronological techniques that are used to date events and quantify rates geodetic techniques for defining recent deformation and paleoseismologic approaches to calibrate past deformation Overall this book focuses on the current understanding of the dynamic interplay between surface processes and active tectonics As it ranges from the timescales of individual earthquakes to the growth and decay of mountain belts this book provides a timely synthesis of modern research for upper level undergraduate and graduate earth science students and for practicing geologists Additional resources for this book can be found at www.wiley.com/go/burbankgeomorphology Active Tectonics National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Geophysics Research Forum, Geophysics Study Committee, 1986-01-01 Over 250 000 people were killed in the Tangshan China earthquake of 1976 and other less active tectonic processes can disrupt river channels or have a grave impact on repositories of radioactive wastes Since tectonic processes can be critical to many human activities the Geophysics Study Committee Panel on Active Tectonics has presented an evaluation of the current state of knowledge about tectonic events which include not only earthquakes but volcanic eruptions and similar events This book addresses three main topics the tectonic processes and their rates methods of identifying and evaluating active tectonics and the effects of active

tectonics on society *Tectonic Geomorphology* Navodita Bhatnagar, 2016-11-30 Tectonic geomorphology is the study of the interplay between tectonic and surface processes that shape the landscape in regions of active deformation and at time scales ranging from days to millions of years This book focuses on the current understanding of the dynamic interplay between surface processes and active tectonics **Tectonics, Climate, and Landscape Evolution** Sean D.

Willett, 2006-01-01 The Liwu River runs a short course its channel head at the water divide in Taiwan's Central Range is a mere 35 km from its outflow into the Pacific Ocean But in those short 35 km the Liwu has carved one of the world's geographic wonders the spectacular Taroko Gorge with marble and granite walls soaring nearly 1000 m above the river channel Taroko Gorge was a fitting venue for a 2003 Penrose Conference that addressed the coupled processes of tectonics climate and landscape evolution The young mountains extreme weather and dramatic landforms provided an appropriate backdrop to wide ranging discussions of geomorphic processes climate and meteorology sediment generation and transport the effects of erosion on tectonics and new analytical and modeling tools used to address these processes and problems This volume's papers extend that discussion reaching across fields that have experienced rapid advances in the past decade

Publisher's website *Tectonic Archaeology* Gina L. Barnes, 2022-12-29 The effects of tectonic processes on archaeological sites are evidenced by earthquake damage volcanic eruptions and tsunami destruction but these processes also affect a broader sphere of landform structures environment and climate An overview of tectonic archaeology is followed by a detailed summary of geoarchaeological fieldwork in Japan **Tectonic Geomorphology** Douglas West Burbank, 2001 *Tectonics*

Evgenii Sharkov, 2018-05-16 This book is devoted to different aspects of tectonic researches New results and interpretations are presented here for diverse tectonic settings Most of the chapters include up to date materials of detailed geological investigations often combined with geophysical data which can help understand more clearly the essence of mechanisms of different tectonic processes Some chapters are devoted to the tectonic evolution of regions East Antarctica East Kazakhstan Mongolo Okhotsk orogenic belt and others have dealt with the different aspects of tectonic events influence of detachment structural deformation on pore structure evolution in shales evolution of drainage in response to brittle ductile dynamics and surface processes soft sediment deformation structures triggered by the modern earthquakes and post opening deformation history of the Japan Sea back arc basin **Processes, Products and Cycles of Tectonic Geomorphology** Vivek S.

Kale, 2020-11 Processes Products and Cycles of Tectonic Geomorphology is the fourth volume in a reference series The book focuses on the process of landscape evolution more than the qualitative landscape description that is commonly available in geomorphic texts The emerging understanding of the linkage between the modified Davisian landscape cycles and Wilson tectonic cycles is enumerated to highlight how sustainable land use planning and hazard mitigation can benefit from this integrative perspective of geomorphology This book is intended for practitioners and advanced level students of earth sciences Integration of the principles and theories behind recent studies that integrate geomorphic studies in tectonic

evaluations Importance on the maturity of landscape evolution geomorphic maturity in anthropogenic land use planning and sustainability and hazard zone assessment and management is highlighted through practical case studies and theoretical explanations Easy to use reference book for students and researchers of the subject Encyclopedia of Geomorphology
Andrew Goudie,2013-04-15 Volume editor is the leading authority in the field Alphabetically organized in two volumes c 700 comprehensively signed cross referenced and indexed entries Detailed bibliographies and suggestions for further reading follow most entries Fully illustrated over 300 plates and line drawings Written by an editorial team of over 270 experts from over thirty countries

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