



## Geomorphology: Processes, Taxonomy and Applications

By Miguel H. Sanders, Phillip D. Clark

Nova Science Publishers Inc. Hardback. Book Condition: new. BRAND NEW, Geomorphology: Processes, Taxonomy and Applications, Miguel H. Sanders, Phillip D. Clark, Geomorphology is the scientific study of landforms and the processes that shape them. Geomorphology is practised within geology, engineering geology, geodesy, geography, archaeology, and geotechnical engineering. Practical applications of geomorphology include measuring the effects of climate change, hazard assessments including landslide prediction and mitigation, river control and restoration, coastal protection, and assessing the presence of water on Mars. In addition, understanding and recognition how rivers behave is crucial in the assessment of ecological conditions of streams and important for river restoration purposes. In this book, the geomorphological structure of river channel of small streams in terms of River Morphology Hierarchical Classification (RHMC) is analysed. The authors also develop a workflow that aims to facilitate a sustainable land-use decision making that has the concept of a spatial decision support system as its centre. State of the art 3D modelling technologies are applied and information retrieved from these models into a GIS are integrated. It is argued that if a planned land-use involves a strong interaction with the geosphere, geoscientific criteria need to be addressed in the most accurate and transparent...



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