

## Advances In Fluvial Dynamics And Stratigraphy

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### Advances In Fluvial Dynamics And

Paul A. Carling and Martin R. Dawson are the authors of Advances in Fluvial Dynamics and Stratigraphy, published by Wiley. From the Back Cover Developments in the modelling of sediment transport in rivers and the interactions with the river-bed have been remarkable over the last two decades.

### Advances in Fluvial Dynamics and Stratigraphy: Carling ...

Advances in Fluvial Dynamics and Stratigraphy | Fluvial Hydrology & Limnology | Hydrological Sciences | Earth & Space Sciences | Subjects | Wiley. Developments in the modelling of sediment transport in rivers and the interactions with the river-bed have been remarkable over the last two decades. This progress has increased the understanding of the nature of turbulence, and the ability to replicate mathematically simple flow-particle interactions which can be observed experimentally.

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Developments in the modelling of sediment transport in rivers and the interactions with the river-bed have been remarkable over the last two decades. This progress has increased the understanding of the nature of turbulence, and the ability to replicate mathematically simple flow-particle interactions which can be observed experimentally. In addition, quite elegant models of stratigraphic ...

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Advances in fluvial dynamics and stratigraphy. [Paul Carling; Martin R Dawson;] -- Developments in the modelling of sediment transport in rivers and the interactions with the river-bed have been remarkable over the last two decades.<p>This progress has increased the understanding ...

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Amid increasing interactions with other disciplines and technical advances for detecting, monitoring, and modeling fluvial landscape origin, dynamics, and diversity, a number of scientific works have come out and nested in globally recognized edited books.

### Current Practice in Fluvial Geomorphology - Dynamics and ...

Paul A. Carling and Martin R. Dawson are the authors of Advances in Fluvial Dynamics and Stratigraphy, published by Wiley. Innehållsförteckning Partial table of contents: Turbulent Flow in Rivers (J. Williams).

### Advances in Fluvial Dynamics and Stratigraphy - Paul A ...

Eco-fluvial dynamics is a science that studies the coupled relations among sediment transport, flow, riverbed deformation, and biochemical processes of aquatic ecosystems. Surface characteristics of sediment particles, sediment transport, and its ecological influence mechanisms are the key points of eco-fluvial dynamics.

## **From fluvial dynamics to eco-fluvial dynamics - ScienceDirect**

The current advances in the arena of fluvial geomorphology in association with other Earth system science disciplines are broadly as a result of the contemporary advances in data acquisition and modeling techniques particularly due to the progress in geophysical data acquisition tools, computer programming, geoinformatics, numerical modeling, computational fluid dynamics, numerical dating, laboratory experimentation, etc.

## **Introductory Chapter: Current Practice in Fluvial ...**

In the last century, the fluvial system has undergone an increase of human activities that led to a modification of its geomorphological, hydrological, and biological factors., The high loss of life and infrastructures due to high-magnitude events in the fluvial environment makes detailed studies on river restoration and management particularly suitable.

## **Water | Special Issue : Fluvial Geomorphology and River ...**

Using this technique, important advances have been made in determining the primary factors influencing fan slope, understanding of avulsion dynamics, identifying autogenic processes driving change on fan systems independent of any change in external conditions, and the mechanics of flow and flood risk on alluvial fans, to name a few.

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Recent Advances in the Dynamics of Steep Channels. Francesco Comiti. E-mail address: francesco.comiti@unibz.it. Faculty of Science and Technology, Free University of Bozen-Bolzano, Bolzano, Italy ... River Hydraulic Structures and Fluvial Geomorphology, 10.1201/9781315120584, (269-279), (2017).

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River incision theory. To assess the influence of rainfall on the relationship between fluvial relief and erosion rates, we build on the classical stream-power river incision model, which can be written in terms of drainage area or discharge (11, 19)  $E = K \cdot A^m \cdot S^n$  (1a)  $E = K l_p \cdot Q^m \cdot S^n$  (1b)  $K = K l_p \cdot R^m$  (1c) where E is the erosion rate (m year<sup>-1</sup>); K (units depend on m ...

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North, CP 1996, The prediction and modelling of subsurface fluvial stratigraphy. in P Carling & M Dawson (eds), Advances in fluvial dynamics and stratigraphy. John Wiley & Sons, Chichester, UK, pp. 395-508.

## **The prediction and modelling of subsurface fluvial ...**

Depositional controls on primary permeability and porosity at the bedform scale in fluvial reservoir sandstones. In In: Carling, P. A. and Dawson, M R., eds., Advances in fluvial dynamics and stratigraphy. Chichester: Wiley (pp. 373-394)

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