

advances in urban flood pdf

and manage flood disasters. In order to stem the increasing impact of urban floods, a major rethink of current planning and flood management policies and practice is required, taking into account different spatial and temporal scales. This book addresses a broad spectrum of relevant issues in the emerging field of urban flood management.

ADVANCES IN URBAN FLOOD MANAGEMENT

Against this background, recent studies have focused on developing a framework and application for urban flood risk analysis in the context of climate change and urbanization, and significant advances in this field have been achieved in China.

A review of advances in urban flood risk analysis over

We focus on the following topics: (1) urban flood hazard analysis, (2) exposure and vulnerability analysis, and (3) urban flood risk assessment. Recent advances made in the research area are presented with suggestions for further research to improve the availability and reliability of urban flood risk analysis.

(PDF) A review of advances in urban flood risk...

China is a country with severe water problems, both in terms of water scarcity, flooding and water quality. Due to the rapid process of industrialization and urbanization and high frequencies of global extreme weather, the urban water problems have become very prominent in the last decade. The damages caused by floods are exponentially increasing.

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Results demonstrate that the proposed model is accurate and efficient in simulating urban floods for practical applications. Advances in Meteorology is a peer-reviewed, Open Access journal that publishes original research articles as well as review articles in all areas of meteorology and climatology.

A Coupled 1D-2D Hydrodynamic Model for Urban Flood Inundation

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One of the effects of global climate change is the increasing variability of extreme flood events and cyclones. Current measures to mitigate flood impacts, particularly in the urban environment, are based on previously-planned flood risk intervals and noâ€¦

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The framework allows to quantify and map the benefits and limitations of Green Infrastructure for urban flood mitigation. â€œ In the LSC catchment, Green Infrastructure substantially reduces urban flood hazards from short duration storms. â€œ Green Infrastructure efficacy should be tested in terms of storm probability and duration.

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