

Morphometric And Hydrological Analysis And Mapping For

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Morphometric And Hydrological Analysis And

The study analyzes six morphometric parameters namely absolute relief, relative relief, dissection index, average slope, drainage density and ruggedness index, for better understanding of...

(PDF) Morphometric and hydrological analysis and mapping ...

The study analyzes six morphometric parameters namely absolute relief, relative relief, dissection index, average slope, drainage density and ruggedness index, for better understanding of hydrologic processes in a watershed. The advanced application

(PDF) MORPHOMETRIC AND HYDROLOGICAL ANALYSIS AND MAPPING ...

The results of morphometric analysis from remote sensing and GIS techniques are useful for hydrological implication of river basin and artificial recharging structure (Golekar et al. 2013). The remote sensing and GIS-induced morphometric parameters are proved to be immense utility in natural resource management, water conservation and river basin evaluation (Singh et al. 2013).

The significance of morphometric analysis to understand ...

Morphometric and Hydrological Analysis of North East Punjab Region: With Special Reference to Groundwater Management Anupriya Gupta, Anil Kumar Misra, Nikita Gupta, Ankur Shivhare, Manav Wadhwa Department of Civil and Environmental Engineering, ITM University, Sector- 23A, Palam Vihar, Gurgaon, Haryana, India

Morphometric and Hydrological Analysis of North East ...

Morphometric analysis requires measurement of linear features, gradient of channel network and contributing ground slopes of the watershed (Nag and Chakraborty, 2003). Watershed morphologies show different geological and geomorphological processes over time, as indicated by various morphometric studies (Horton 1945; Strahler 1957, 1964).

MORPHOMETRIC ANALYSIS OF HYDROLOGICAL BEHAVIOR OF NORTH ...

Kamal V., Sipolya R., Kumar R., Mukherjee S. (2016) Morphometric and Hydrological Study of Alaknanda and Bhagirathi Basins. In: Raju N. (eds) Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment.

Morphometric and Hydrological Study of Alaknanda and ...

Hydrologic and geomorphic processes occur within the watershed, and morphometric characterization at the watershed scale reveals information regarding formation and development of land surface processes [6, 7] and thus provides a holistic insight into the hydrologic behaviour of a watershed. Basin travel time, time to hydrograph peak (basin lag time), and intensity of erosional processes operating at watershed scale can be predicted with better insight and accuracy from morphometric ...

Morphometric Analysis to Infer Hydrological Behaviour of ...

morphometric analysis of drainage basin. The drainage basin analysis is important in any hydrological investigation like assessment of groundwater potential and groundwater management. Various important hydrologic phenomena can be correlated with the physiographic characteristics of drainage basins such as

Morphometric Analysis of a Drainage Basin Using ...

4.1. Morphometric analysis The shape and dimensions of the landforms is measured by the mathematical approaches to describe the geomorphic conditions and hydrological processes and this type of landform is known as morphometry. The basic parameters for the investigation consist of area, altitude, volume, slope, profile, and texture of landforms.

Morphometric analyses of Neyyar River Basin, southern ...

The study involved hydrological analysis, morphometry, multi-criteria decision analysis and change detection with focus on highlighting river basins or catchments for conservation management. According to [18] hydrological processes (peak flow, runoff, time to peak, overland flow and infiltration) are influenced by morphometric variables of the area of study.

Morphometric and Change Detection Analysis for ...

Morphometric analysis, including the aspects such as linear, aerial and relief aspects of the Parbati River basin has been done with the help of remote sensing and GIS techniques. Strahler's method of stream ordering is used for all stream related calculations. The river basin is designated as 6th order basin, and 1st order streams are mostly

Journal of DOI: Geography & Natural Disasters

Morphometric analysis is a mathematical exemplification of earth's surface (Clarke et al., 1996). Morphometric study of a basin delivers information about different features and characterizes the drainage system of basin in features (Strahler et al., 1964; Dubey et al., 2015). National Institute of Hydrology (1993)

Morphometric and Hydrological Analysis of Krishna River ...

In all fourteen literatures the researchers analyses the morphometric study for watershed management plan and hydrologic implications. In that we focus on instead of locations, Paper name and author name we focus on matter of fact that is methodology, input raw data and process to enhance the study for sustainable watershed management water security.

Morphometric Analysis of Watershed using GIS and RS: A ...

The morphometric analysis of the drainage basin and channel network play an important role in understanding the geo-hydrological behavior of drainage basin and expresses the prevailing climate ...

(PDF) Morphometric and Hydrological Analysis of Krishna ...

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One of the important problems in hydrology is the quantitative description of river system structure and the identification of relationships between geomorphological properties and hydrological respo...

On morphometric properties of basins, scale effects and ...

Understanding the behavior of surface drainage network is one of the important prerequisite condition for effective planning and management of water resources within the watershed. Morphometric analysis of a watershed is a crucial step in watershed

(PDF) STUDY OF DRAINAGE SYSTEM AND ITS HYDROLOGICAL ...

ABSTRACT: The morphometric characteristics of a river basin are very important factors in watershed hydrology. The morphometric analysis of the Ofu River sub-basin was carried out in this study to assess its morphologic and hydrological characteristics as well as its flood potentials based on the morphological characteristics.

Hydrologic and Morphometric Analysis of Ofu River Sub ...

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Different morphometric parameters including stream order, stream length, bifurcation ratio, relief ratio, drainage density, stream frequency, drainage texture, form factor, circularity ratio, elongation ratio, infiltration number and ruggedness number and their impact on hydrological processes such as infiltration, runoff, peak flow, overland flow and erosion in the Offin River Basin were discussed.

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