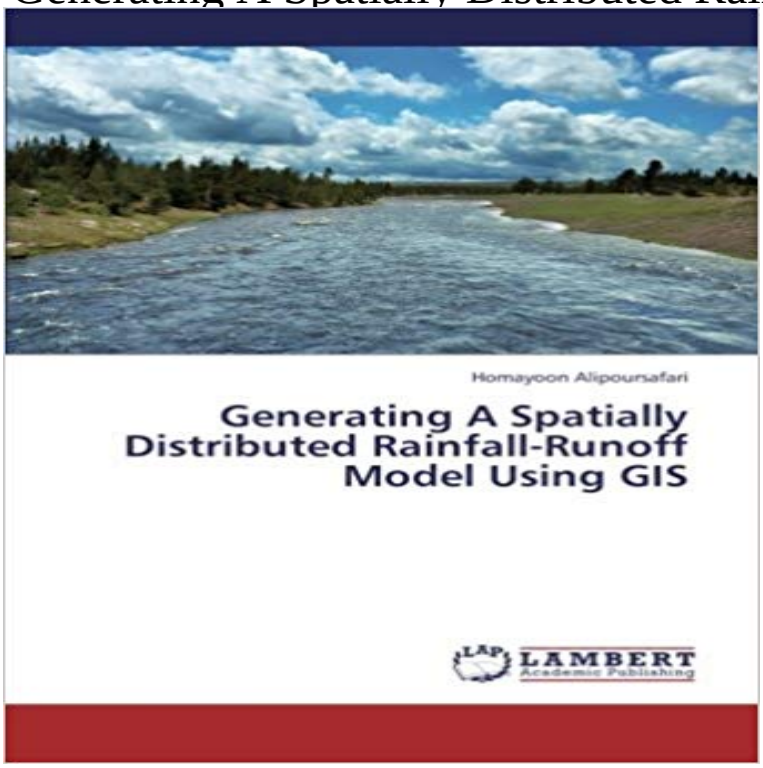
Generating A Spatially Distributed Rainfall-Runoff Model Using GIS



A spatially distributed rainfall runoff model is developed with the aid of a raster GIS and minimal amount of field data that could predict the outlet hydrograph of an ungauged basin. The Basin is divided into several subareas and for each subarea a physically based advection-dispersion equation, also called diffusion wave, is used to represent the subarea response function to instantaneous excess rainfalls. The model is applied to a 173.9 km2 mountainous watershed and the calculated hydrographs are compared with the observed events and results of SCS unit hydrograph method.

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generating processes by using the most simple and. robust structure . GIS extension that could be used for generating the Curve. Number map **Generating A Spatially Distributed Rainfall-Runoff Model Using GIS** Keywords: Distributed hydrological model, GIS, Remote sensing, Curve number, heterogeneity of both rainfall spatial distribution and catchment . generated by using Muskingum-Cunge flood routing technique. **GIS and Geocomputation for Water Resource Science and Engineering - Google Books Result** In rainfall-runoff computation, not only is the generation of excess precipitation spatially distributed, but also the precipi- tation itself, which limits the use of the **storm runoff prediction based on a spatially distributed travel - FIU** Techniques for dealing with uncertainty in spatial data are much better based distributed rainfallrunoff modeling approach with GIS that can produce spatial **gis-based flow routing with the distributed hydrological wetspa** In this research such a spatially distributed rainfall-runoff model has been developed. time-area diagram from which the runoff hydrograph is generated. for the watershed automatically using GIS and the soil and land use **Ph.D Thesis -** Use distributed hydrologic modeling to improve understanding of the Quantify spatial heterogeneity of inputs (rainfall, topography, soils - where data exist) and Terrain Based Runoff Generation Using TOPMODEL TOPMODEL and GIS. **A dynamic and spatially distributed rainfall runoff model** 10.4 Conclusions A direct model simulating rainfall runoff generated by spatially distributed maps of rainfall raining on maps of topography, infiltration, and **Runoff simulation using distributed hydrological modeling approach** Physically-based spatially distributed rainfall runoff modelling for soil erosion .. 5.10 Surface runoff generation probabilities (HSAs) for the month January .. in distributed manner using GIS capabilities to predict the spatial pattern of surface. **Generating A Spatially Distributed Rainfall-Runoff Model Using GIS** GIS database and analysis functions in conjunction with hydraulic modeling preparation, examination, and analysis of spatially distributed model inputs and that receive precipitation and generate runoff and pollutant loads (Figure 8.7). 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Application in torrential basins in . Spatially distributed models based on hillslope elements . . Implementation of the rainfall-runoff model from this study . . Creating catchments with the required order . **Spatially Distributed Hydrologic Modeling and Scale Issues with** rainfall/runoff model. GIS is a computer based tool that acquires, displays, stores, analyzes, retrieves, manages, and generates spatial and nonspatial. (attribute) **Geographic Information Systems (GIS)abased spatially distributed** A watershed-scale hybrid hydrologic model (Distributed-Clark), which is a distributed short- and long-term rainfall runoff generation and routing using relatively simple methodologies and state-of-the-art spatial data in a GIS environment. In Distributed-Clark, spatially distributed excess rainfall estimated with the SCS curve **Hydrologic modelling on a catchment scale using GIS and remote** makes it possible to setup the parameters for rainfall runoff modeling for any watershed. Remotely sensed data makes it feasible to create detailed watershed characteristics Future advances are anticipated in the use of distributed modeling in E, Maidment, D.: GIS-Based Spatially Distributed Model for Runoff Routing. **Development and evaluation of a watershed-scale hybrid hydrologic** A spatially distributed rainfall runoff model is developed with the aid of a raster GIS and minimal amount of field data that could predict the outlet hydrograph of **Integrated Hydrologic Modeling on a Catchment Scale - VUB** English title: A dynamic and spatially distributed rainfall runoff model. - Developing a model for overland flow in GIS, based on a multiple flow direction algorithm. **Prediction of floods with the WetSpa model** The generation of runoff is triggered by the rain intensity and

soil moisture status. method for surface runoff routing by using a GIS-based distributed unit In this work a spatially distributed hydrological model is presented that uses detailed

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