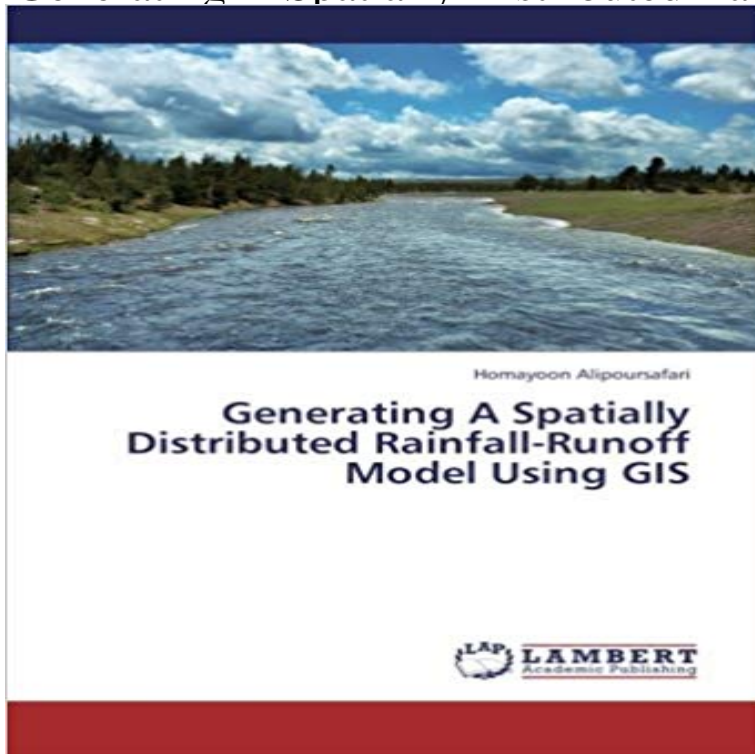


## Generating A Spatially Distributed Rainfall-Runoff Model Using GIS



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 km<sup>2</sup> mountainous watershed and the calculated hydrographs are compared with the observed events and results of SCS unit hydrograph method.

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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

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