



Land Surface Processes in Hydrology

By Sorooshian, Soroosh / Gupta, Hoshin V.

Condition: New. Publisher/Verlag: Springer, Berlin | Trials and Tribulations of Modeling and Measuring | Proceedings of the NATO Advanced Research Workshop "Global Environmental Change and Land Surface Processes in Hydrology: The Trials and Tribulations of Modeling and Measuring", held in Tucson, Arizona, May 17-21, 1993. | General circulation models (GCMs) predict certain changes in the amounts and distribution of precipitation, but the conversion of these predictions of impacts on water resources presents novel problems in hydrologic modeling, particularly with regard to the scale of the processes involved. Therefore improved, distributed GCMs are required. New remote sensing technologies provide the necessary spatially distributed data. However, there are many attendant problems with the translation of remotely sensed signals into hydrologically relevant information. This book elucidates how to improve the representation of land surface hydrologic processes in GCMs and in regional and global scale climate studies. It is divided into five sections: Models and Data; Precipitation; Soil Moisture; Evapotranspiration; Runoff. | 1 - Models and Data.- 1. Data, Data Everywhere, Nor Any Drop to Drink.- 2. The Trials and Tribulations of Modeling and Measuring in Surface Water Hydrology.- 3. Hydrological Processes in GCMs.- 4. The Challenges We Face: Panel Discussion on Data and...



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