



# **Integrated Watershed Management through Simulation Modelling: With Livelihood Linkages and GIS based Approaches**

*Dr. Pradeep P. Lodha, Prof. Ashvani K. Gosain*

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## **Integrated Watershed Management through Simulation Modelling: With Livelihood Linkages and GIS based Approaches** Dr. Pradeep P. Lodha, Prof. Ashvani K. Gosain

The book presents a watershed based sustainable livelihoods framework which analyses the livelihoods of watershed community, evaluates watershed interventions and establishes linkages between livelihoods and hydrological components. A methodology is proposed for quantification of the socio-economic aspects, which is found effective in measuring the impacts of watershed program on local community. The SWAT hydrological model with ArcView GIS interface has been used to simulate various watershed interventions for water and sediment yields. Statistical analysis like factor and regression modelling is used to establish linkages between livelihoods and hydrological components. The GIS has played an important role in database creation, data processing and analysis. The methodology is employed on three watersheds namely Dudhi micro-watershed, Bewas micro-watershed and Dudhi milli-watershed which fall in Raisen district of Madhya Pradesh State in India. The students and practitioners in the area of water resources, hydrology, environment, agriculture, irrigation, rural management and developmental studies will find this book interesting for their academic curricula and research projects.

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