

Computer simulation of
soil-water dynamics: A
compendium of recent
work (IDRC-082e)

Hillel, Daniel

Computer Simulation Of Soilwater Dynamics A Compendium Of Recent Work

International Society of Soil Science



Computer Simulation Of Soilwater Dynamics A Compendium Of Recent Work:

Computer Simulation of Soil-water Dynamics Daniel Hillel, 1977 Fundamental principles of modeling and simulation Isothermal evaporation of soil water under fluctuating evaporativity including the role of hysteresis Non isothermal evaporation of soil water including the effect of surface reflectivity Water dynamics and storage in fallow soils as affected by soil texture and profile layering Hydrology of a sloping field including surface runoff and groundwater flow Moisture extraction by root systems and the concurrent movement of water and salt in the soil profiles Soil, Water, and Air Sciences Research ... Annual Report, 1979 *Soil, Water, Air Sciences Research* United States. Science and Education Administration. Federal Research, 1978 Eco-hydrology Andrew J. Baird, Robert L. Wilby, 1999 Leading ecologists and hydrologists present reviews of the eco hydrology of drylands wetlands temperate and tropical rain forests rivers and lakes to offer an overview of the complex relationships between plants and water **Advances in Theoretical Hydrology** J.P. O'Kane, 2016-09-01 This Festschrift containing sixteen invited essays and papers is a tribute to the distinguished Irish hydrologist James Dooge on the occasion of his 70th birthday His former students colleagues and friends in fourteen countries have provided a varied selection on his favourite topics flow in open channels and unsaturated soil and also from his major interest of recent years large scale hydrology and global change The book has three sections The first section on hydrological processes contains six papers The second section on large scale hydrology has four papers Six historical reflective and philosophical essays on the past and future of the hydrological sciences form the third section of the book

Land Surface Evaporation Thomas J. Schmugge, Jean-Claude Andre, 2012-12-06 General circulation model GCM experiments in the late 1970 s indicated that the climate is sensitive to variations in evaporation at the land surface Thus in the context of climate modeling it became important to develop techniques which would realistically estimate the evaporation flux on land Land Surface Evaporation Measurement and Parameterization discusses strategies for the use of experimental data in developing and testing parameterization schemes of the evaporation flux in GCM s The book reviews state of the art techniques such as remote sensing which measure evaporation fluxes over continental surfaces It evaluates their relevance with respect to the various spatial and temporal scales of interest This book will provide researchers in climatology meteorology hydrology and water management and remote sensing with a thorough overview of current research in land surface evaporation It will also give young scientists insight into surface processes **Farming Action: Catchment Reaction** J Williams, RA Hook, HL Gascoigne, 1998-01-01 Dryland farming is a major export earner for many temperate zone countries yet it continues to degrade a country s natural resources Effects are not restricted to the land changes in water quality can reduce the potential uses of water and bring about catastrophic changes in both freshwater and coastal ecosystems Farming Action Catchment Reaction provides a comprehensive technical overview of the relationships between dryland farming systems and catchment land and water quality in Australia and integrates it in a whole system framework It

deals with the issues in terms of people pointers processes and prediction as it discusses social aspects of developing and implementing research to improve dryland farming systems in catchment management programs indicators of catchment health and the processes which determine the impact of the farming action on the catchment response It concludes by considering the adequacy of our ability to use this process knowledge in models to predict the effect of dryland farming on catchment condition

Achieving sustainable cultivation of oil palm Volume 1 Prof. Alain Rival,2018-02-09 Experts from key organisations such as the RSPO identify key production trends and challenges Reviews latest developments in conventional and marker assisted breeding as well as transgenic approaches Assesses ways of assessing and optimising yields through techniques such as better nutrient and soil management

Shrub-Steppe Alec Rickard,L.E. Rogers,B.E. Vaughan,S.F. Liebetrau,2012-12-02 Owing to man made intervention the shrub steppe now represents a rapidly disappearing landscape in the arid regions of North America This book represents a systems level study of ecological variables affecting water balance and responses to perturbation The study focused on a very large protected landscape unit comprising a natural watershed area located in the semi arid western United States Long term and concurrent data sets were established with a view towards establishing system level responses to manipulative interventions and natural perturbations like wildfire These data sets were established for micrometeorology climatology mineral cycling in soils nutrient and mineral pathways in springs and streams vegetational dynamics and population changes on the site In synthesizing nearly twenty years of data the more interesting ecosystem level responses concerned vegetational recovery and water balance For instance the synthesis uniquely demonstrates the interaction of biotic and non biotic factors and their integrated effect on regional water balance However special attention was also paid to species diversity and the genetic resource pool represented at this site This book will be of primary interest as a reference resource to land managers and wildlife specialists and as a research study for scientists interested in systems level ecology Conservation minded citizens who take more than a cursory interest in ecology will also find it interesting

Books in Print Supplement ,1984 *Water in Desert Ecosystems* Daniel D. Evans,John L. Thames,1981 Agriindex ,1990 **The Journal of Developing Areas** ,1980 Canadiana ,1979

Climate Change and the Global Harvest Cynthia Rosenzweig,Daniel Hillel,1998 This book analyzes and elucidates the nature of predictable changes on the world s agricultural system caused by the so called greenhouse effect Its aim is to educate students at the undergraduate level about how the climatic factors affecting agriculture may be modified in the future and what practical adaptations might be undertaken to prevent or overcome any possible adverse impacts on our ability to feed the world s population The book draws on several complimentary disciplines including atmospheric science hydrology soil science crop physiology and resource economics and integrates the relevant aspects of these fields

Intensive Wheat Management in Northern New York Stephen Raymond Kaffka,1986 *Bulletin International Society of Soil Science*,1993 **Study of Groundwater and Soil Moisture Movement by Applying Nuclear, Physical**

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