
Crop Evapotranspiration Lines For Computing Water

Crop Physiology

Tropical Dry Forests in the Americas

Use of Computer-Operated Models as Decision-Support Tools in Operation and Management of Irrigation Systems: Sri Lankan Experience

Sustainable Practices in Surface and Subsurface Micro Irrigation

Mine Pit Lakes

4th IFIP TC 12 Conference, CCTA 2010, Nanchang, China, October 22-25, 2010,

Selected Papers

California, USA, 15-18 July 2001

Computer and Computing Technologies in Agriculture VII

Guidelines and Computer Programs for the Planning and Design of Land Drainage Systems

Challenges and Opportunities in Agrometeorology

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Nile River Basin

January 1994 - June 1997

Irrigation Requirements and Uniformity, Fertigation, and Crop Performance

Emerging Sensor Technology in Agriculture

Remote Sensing of Environment

Hydroinformatics, Proceedings Of The 6th International Conference (In 2 Volumes, With Cd-rom)

Micro Irrigation Management

Characteristics, Predictive Modeling, and Sustainability

Current Perspective to Predict Actual Evapotranspiration

Groundwater Hydrology

Guidelines for Computing Crop Water Requirements

Sustainable Irrigation and Drainage IV

Applications for Genetic Improvement and Agronomy

Cosmic Ray Neutron Sensing: Estimation of Agricultural Crop Biomass Water Equivalent

Effects of Irrigation and Rainfall Reduction on Ground-water Recharge in the Lihue Basin, Kauai, Hawaii

7th IFIP WG 5.14 International Conference, CCTA 2013, Beijing, China, September

18-20, 2013, Revised Selected Papers, Part II
Current Perspective on Irrigation and Drainage
Computers and Information Technologies in Agricultural Production and Management
Integrated Approaches
Crop Production Technologies
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Crop Physiology WIT Press

The aim of this paper is to facilitate the planning and design of land drainage systems for sound land and water management for engineers and other professionals. It considers the integration of technical, socio-economic and environmental factors and the need for system users' participation in the planning, design, operation and maintenance processes. The text provides guidelines for the appropriate identification of drainage problems, for the planning and design of field drainage systems (surface and subsurface) and the main drainage and disposal systems. The annexes provide more detailed information with technical background, appropriate equations, some cross-references for finding appropriate methodologies, and computer programs for calculation of extreme values, of permeability and some land drainage system parameters. --Publisher's description.

Tropical Dry Forests in the Americas

Nova Publishers

Rainwater Management: Theory and Practice is a comprehensive treatise on water management based on water harvesting techniques for management of storage water for irrigation purpose & irrigation water management. This book, primarily designed to cater to the needs

of undergraduate and postgraduate students of agricultural engineering, agricultural and soil & water engineering, research scholars, professionals and policy planners associated with rainwater management, dryland farming and irrigation water management. It covers major topics on water harvesting and design of water harvesting structures and recycling of harvested rainwater aspects. Entire content has been divided into the 22 chapters with solved examples and case studies. A sincere attempt has been made to compile and present the text in quickly understandable term, well drawn diagrams, understanding the rainwater management and livelihood security aspects of dryland and irrigated farmers. This book could be a text book for undergraduate and postgraduate students, a reference tool for professional and good teaching material for teachers in the field of rainwater management and irrigation management under dryland ecosystem and also for the scientists working in the field of rainwater and Irrigation water management.

Use of Computer-Operated Models as Decision-Support Tools in Operation and Management of Irrigation Systems: Sri Lankan Experience John Wiley & Sons

Under threat from natural and human disturbance, tropical dry forests are the most endangered ecosystem in the tropics, yet they rarely receive the scientific or conservation attention they deserve. In a comprehensive overview,

Tropical Dry Forests in the Americas: Ecology, Conservation, and Management examines new approaches for data sampling and analysis using remote sensing technology, discusses new ecological and econometric methods, and critically evaluates the socio-economic pressures that these forest are facing at the continental and national levels. The book includes studies from Mexico, Costa Rica, Colombia, Venezuela, and Brazil that provide in-depth knowledge about the function, status, and conservation efforts of these endangered forests. It presents key elements of synthesis from standardized work conducted across all sites. This unique contribution provides new light in terms of these forests compared to each other not only from an ecological perspective but also in terms of the pressures that they are facing, and their respective responses. Written by experts from a diversity of fields, this reference brings together the many facets of function, use, heritage, and future potential of these forests. It presents an important and exciting synthesis of many years of work across countries, disciplines, and cultures. By standardizing approaches for data sampling and analysis, the book gives readers comparison information that cannot be found anywhere else given the high level of disparity that exists in the current literature.

Sustainable Practices in Surface and Subsurface Micro Irrigation CRC Press

This book covers the latest developments in remote sensing theory and applications by numerous researchers, experts and collaborators of the Remote Sensing and Geo-Environment Lab of the Department of Civil Engineering and Geomatics of the Cyprus University of Technology. The

main highlight of this book is combination of several techniques such as satellite remote sensing, field spectroscopy, smart sensors, ground techniques for achieving an integrated method for the systematic monitoring of the environment.

Mine Pit Lakes CRC Press

Fruit Crops: Diagnosis and Management of Nutrient Constraints is the first and only resource to holistically relate fruits as a nutritional source for human health to the state-of-the-art methodologies currently used to diagnose and manage nutritional constraints placed on those fruits. This book explores a variety of advanced management techniques, including open field hydroponic, fertigation/bio-fertigation, the use of nano-fertilizers, sensors-based nutrient management, climate- smart integrated soil fertility management, inoculation with microbial consortium, and endophytes backed up by ecophysiology of fruit crops. These intricate issues are effectively presented, including real-world applications and future insights. Presents the latest research, including issues with commercial application Details comprehensive insights into the diagnosis and management of nutrient constraints Includes contributions by world renowned researchers, providing global perspectives and experience 4th IFIP TC 12 Conference, CCTA 2010, Nanchang, China, October 22-25, 2010, Selected Papers SME

Agricultural water management includes many topics: farm-level and regional water management, irrigation, drainage, and salinity management of cultivated areas, collection and storage of rainfall in relation to soil properties and vegetation; the role of groundwater and surface water in nutrient cycling, exploitation and protection of water

resources, control of flooding, erosion, and desertification. This book presents leading-edge research from around the world.

California, USA, 15-18 July 2001 Current Perspective on Irrigation and Drainage Improving agricultural water use efficiency (WUE) is vitally important in many parts of the world due to the decreasing availability of water resources and the increasing competition for water between different users. Micro irrigation is an effective tool for conserving water resources. Studies have revealed a significant water savings, ranging from 40% to 70% under drip irrigation compared with surface irrigation. This new volume, *Engineering Interventions in Sustainable Trickle Irrigation: Irrigation Requirements and Uniformity, Fertigation, and Crop Performance*, presents valuable research that evaluates crop water and fertigation requirements, examines optimum irrigation and fertigation scheduling, and analyzes the performance of agricultural crops under micro irrigation. With an interdisciplinary perspective, this volume addresses the urgent need to explore and investigates the current shortcomings and challenges of water resources engineering, especially in micro irrigation engineering. The volume discusses crop water requirements, fertigation technology, and performance of agricultural crops under best management practices. The chapter authors present research studies on drip irrigated tomato, chilies, cucumber, eggplant, cabbage, garlic, sugarcane maize, cashew nut, sapota, banana, mango, and blueberries. Removing the research gap, this volume provides new information that will be valuable to those involved in micro irrigation engineering. *Computer and Computing Technologies*

in Agriculture VII BoD – Books on Demand

This bibliography contains 544 journal, book, and audiovisual citations from the National Agricultural Library's AGRICOLA database. Each entry includes title, publisher, NAL call number, author, place and date of publication, pages, volume and issue number, description (audiovisual), and descriptors. Many entries include abstracts. Indexed by subject and author.

Guidelines and Computer Programs for the Planning and Design of Land Drainage Systems MDPI

U.S. agriculture appears to be at a major turning point in terms of technological change and innovation as it enters the information age[1]and at the heart of the information revolution is the microcomputer. This handbook explains in practical terms how computers are being used in agriculture and analyzes some of the issues surrounding present and potential computer applications. The authors define agriculture in the broadest possible terms, including the traditional aspects of farming, the industries supporting agriculture, service bureaus related to agriculture, classroom instruction and youth development, and the rural family and community. Considered are specific ways microcomputers are changing agriculture, the exact nature of these changes, and how agriculturists are currently adapting microprocessor technology to make agriculture more efficient and viable. Also included is a discussion of the computer software and hardware used in agriculture today, hardware and software purchasing strategies for both individuals and institutions, and sources of information on computer applications in agriculture. Challenges and Opportunities in

Agrometeorology Springer Science & Business Media

Remote image capture systems are a key element in efficient and sustainable agriculture nowadays. They are increasingly being used to obtain information of interest from the crops, the soil and the environment. It includes different types of capturing devices: from satellites and drones, to in-field devices; different types of spectral information, from visible RGB images, to multispectral images; different types of applications; and different types of techniques in the areas of image processing, computer vision, pattern recognition and machine learning. This book covers all these aspects, through a series of chapters that describe specific recent applications of these techniques in interesting problems of agricultural engineering.

Agricultural Water Management Research Trends Food & Agriculture Org.

Micro Irrigation Management: Technological Advances and Their Applications, the fifth book in the Innovations and Challenges in Micro Irrigation book series, is a valuable reference volume on micro irrigation and water management for professional training institutes, technical agricultural centers, irrigation centers, agricultural extension service, and other agencies who work with micro irrigation programs. With an international focus, this new book focuses on applications of solar energy in micro irrigation and other important technological advances. It includes case studies and illustrative examples on drip irrigation design.

Computer Applications In Agriculture IWMI

The global food security and sustainable agriculture are the key challenges before the scientific community in the present

era of enhanced climate variability, rapidly rising population and dwindling resources. No part of the world is immune from meteorological extremes of one sort or another posing threat to the food security. Agrometeorology has to make most efficient use of the opportunities available in achieving the objectives of enhancing productivity and maintenance of sustainability. Increased awareness and technological advancement have provided opportunities to develop efficient agrometeorological services that can help cope with risks. These include improvements in weather forecasting, better understanding of the monsoon variability and crop-weather relationships, advances in operational agrometeorology and agrometeorological information systems, adaptation strategies to climate change and improved risk evaluation and management. This book based on an International Workshop held in New Delhi, India should be of interest to all organizations and agencies interested in agrometeorological applications.

Evapotranspiration Scientific Publishers

This book presents results of scientific studies ranging from hydrological modelling to water management and policy issues in the Nile River basin. It examines the physical, hydrometeorological and hydrogeological description of the basin along with analysis in understanding the hydrological processes of the basin under the changing land-use stemming from population pressure and increased natural resources tapping. The book discusses the increased impact of climate change on the river flows, and such issues as water availability and demand, management and policy to

offset the imbalance between demand and available resources. This book will be of interest to researchers, practitioners, water resources managers, policy makers as well as graduate and undergraduate students. It is a useful reference text for ecohydrology, arid zone hydrology, hydrology of transboundary rivers and similar courses.

Computer and Computing Technologies in Agriculture IV Springer Science & Business Media
Equations, tables.

Ecology, Conservation, and Management DIANE Publishing

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Technological Advances and Their Applications BoD - Books on Demand

This book was designed to be a comprehensive review of selected topics related to irrigation and drainage. Readers will find themes such as salinity control, decision support systems, subsurface drainage, irrigation scheduling in nurseries, irrigation with municipal wastewater, and sustainable drainage systems. These topics and pursuant discussions are expected to be very fruitful in the continuing debate on global food security.

Conceptual and Computational Models WIT Press

This open access book provides methods for the estimation of Biomass Water Equivalent (BEW), an essential step for improving the accuracy of area-wide soil moisture by cosmic-ray neutron sensors

(CRNS). Three techniques are explained in detail: (i) traditional in-situ destructive sampling, (ii) satellite based remote sensing of plant surfaces, and (iii) biomass estimation via the use of the CRNS itself. The advantages and disadvantages of each method are discussed along with step by step instructions on proper procedures and implementation.

Scientific and Technical Aerospace Reports Elsevier

Papers presented at the 10th in a series of conferences on River Basin

Management are contained in this book.

The included works mark a growing global interest in the planning, design and management of river basin systems and take in to account all aspects of Hydrology, Ecology, Environmental Management, Flood Plains and Wetlands.

Nile River Basin Springer

"Wessex Institute of Technology's Sustainable Irrigation 2012 Conference held at University of South Australia in Adelaide"--Preface.

January 1994 - June 1997 Food & Agriculture Org

Digital agriculture is gaining traction among scientists implementing different new and emerging sensor technologies to monitor complex soil-plant-atmosphere interactions in an accurate, cost-effective and user-friendly manner. This book presents some of the latest advances in this emerging area of research. The diversity of applications in which digital agriculture can make an important difference in day-to-day farming decision making makes this discipline an important focus of research internationally.

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