Presents a diverse collection of studies of its use on such crops as wheat, maize, yellow corn, soybeans, rice, and snap peas. The book explores: • soil moisture and salinity distributions under modified sprinkler irrigation • performance of sprinkler irrigation • design considerations for closed circuit drip irrigation systems • performance of bubbler irrigation • energy and water savings of drip irrigation systems • automation of mini-sprinkler and drip irrigation systems • water and fertilizer use efficiencies for drip irrigated maize • evaluation of emitter clogging for drip irrigated systems • and more.


Volume 3
WASTEWATER MANAGEMENT FOR IRRIGATION
Principles and Practices
Editor-in-Chief: Megh R. Goyal, PhD, PE; Coeditor: Vinod K. Tripathi, PhD
This important book focuses on the use of wastewater as a valuable resource for agricultural micro irrigation purposes. It covers: • effective wastewater management practices in a variety of climates, including semi-arid regions and others • how to perform effective evaluations to gauge the quality of the water on plants, including potatoes, maize, eggplant • the cost benefit of using wastewater. It addresses the sources of wastewater for irrigation and the problems along with challenges, including water quality, clogging, soil quality, and more.


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SUSTAINABLE MICRO IRRIGATION

Senior Editor-in-Chief: Megh R. Goyal, PhD, PE

Written by experienced scientists from various parts of the world, the chapters in this book offer basic principles, knowledge, and techniques of micro irrigation management, which are essential in designing, developing, and evaluating an agricultural irrigation management system. The methods and techniques have worldwide applicability to irrigation management in agriculture. The book includes coverage of: • an historical review of micro irrigation • the current global status of the field and its potential • basic principles and applications • new research on chemigation and fertigation • technologies for specific crops, such as sugar cane • irrigation software for micro irrigation design • affordable and low-cost micro irrigation solutions for small farms and farms in developing countries • micro irrigation design using Hydrologic software.


APPLIED MICRO IRRIGATION

Senior Editor-in-Chief: Megh R. Goyal, PhD, PE

Focuses on sustainable micro irrigation management for trees and vines. The book addresses irrigation scheduling, water management for trees and vines, maintenance of micro irrigation systems to avoid clogging, wastewater use in micro irrigation, evaluation of micro irrigation systems, and micro irrigation management in citrus and blueberries. Specialists throughout the world share their expertise on: • automation of micro irrigation systems • service and maintenance of micro irrigation systems • evaluation of micro irrigation systems • scheduling of irrigation • using municipal wastewater for micro irrigation • micro-jet irrigation and other systems • the effect of potassium, acid lime, and other elements • much more

Cat #: N11106. $179.95 US hardback. August 2014.

BEST MANAGEMENT PRACTICES FOR DRIED IRRIGATED CROPS

Editors: Kamal Gurmit Singh, PhD, Megh R. Goyal, PhD, PE, and Ramesh P. Rudra, PhD, PE

Focuses on best management practices for drip irrigated crops. It covers irrigation methods, scheduling of micro irrigation, and mulching and crop performance along with many other topics. The methods described here have been tweaked and proved to be effective and productive. Many practices, procedures, and methods are described here, including: • low tunnel technology low pressure fertigation injector • climatological approaches • design and cost estimation • efficient water use • economics of different micro irrigation methods • crop spacing