

Sprinkle And Trickle Irrigation By Jack Keller

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this book first published in 1990 and reprinted here is a comprehensive state of the art reference on the design principles and management techniques of two primary agricultural irrigation methods the book presents a systematic approach to the optimal design management and operation of these two systems focusing on the synthesis of the entire design process the authors present the chapters in the sequence used to design systems with the analytical material presented and demonstrated in a concise manner for the first time in any book sprinkle and trickle irrigation offers complete design strategies and presentations for all of the major types of sprinkle and trickle systems periodic move center pivot traveling sprinkler linear moving set sprinkler drip spray and line source sequential sample calculations that involve the steps in the design of typical irrigation systems are used extensively as the book progresses these calculations become more comprehensive and are linked together to form complete design packages for the various types of pressurized systems the book also presents a section on selecting pressurized irrigation systems a review of soil plant water relationships unique insight into pipeline hydraulics and economics design specifications for fertilization and frost control a glossary and an annotated bibliography of asae standards for pressurized irrigation systems sprinkle and trickle irrigation is an important practical reference for agricultural engineers irrigation system designers and agricultural managers as well as a vital text for professors and researchers in agricultural engineering sprinkle and trickle irrigation presents beginning to end coverage of the processes and computations needed in the planning and design of sprinkle and trickle irrigation systems the textbook is created for the thinking person who desires more than cookie cutter recipes or simple routine rule of thumb designs rather the authors of sprinkle and trickle irrigation present concise rationale and philosophy behind each computation formula figure and table they decouple recommended design parameters into underlying components that can be recoupled at the time of the design to apply to specific cases and situations in the process the reader gains visualization skills that allow him her to peer inside an irrigation system both hydraulically economically and operationally sprinkle and trickle irrigation is a classic design text and reference that should be on every practitioner s desk the chapters on center pivot linear move and travelling sprinklers go well beyond other current texts solid and encompassing economics are infused into all design topics including application distribution and pumping systems i have lectured out of sprinkle and trickle irrigation for twelve years at the university senior level i am confident that all students

who completed this design course know not only how to design efficient and effective pressurized irrigation systems but also know why they use the procedures that they use
dr richard g allen professor university of idaho

an entirely new agricultural technology trickle or drip irrigation began its development in the early 1960 s initial progress was sporadic even though the advantages in water management with trickle systems were recognized operators were reluctant to use the system because of its high initial cost and questions regarding its reliability once the main problems were isolated and solutions developed to make the system reliable rapid acceptance by the growers resulted today trickle irrigation is being used on crops that were earlier considered to be uneconomical this multi purpose handbook brings together current knowledge from various engineering and scientific disciplines crop hydraulic irrigation and soil sciences needed for understanding the trickle irrigation system for crop production the two dozen contributors are experts on the various subjects which range from the basic to the more practical aspects of trickle irrigation major topics include design operation and management with individual chapters covering historical development emitter construction and clogging system design water and salt distribution automation water treatment irrigation scheduling maintenance fertilization and salinity the book greatly expands the scope of research papers reviews extension bulletins and updates earlier text with new information on trickle systems a multi disciplinary approach has been taken on a multi faceted subject the material contained in the book is the most comprehensive yet developed on the topic illustrative sample problems and solutions provide field operators and extension personnel with information needed to install and maintain trickle systems as it is up to date it is useful as a teaching and reference source for students manufacturers and irrigation system operators as well as irrigation and crop specialists and consultants

closed circuit trickle irrigation is a form of micro irrigation that increases energy and water efficiency by using closed circuit drip irrigation systems designs modifications are made to traditional micro irrigation methods to reduce some of the problems and constraints such as low compressor water at the end of irrigation lines this approach

this important book the only complete one stop manual on microirrigation worldwide offers knowledge and techniques necessary to develop and manage a drip trickle or micro irrigation system the simplicity of the contents facilitates a technician to develop

an effective micro irrigation system management of drip trickle or micro irrigation includes the basic considerations relating to soil water plant interactions with topics such as methods for soil moisture measurement evapotranspiration irrigation systems tensiometer use and installation principles of drip micro trickle irrigation filtration systems automation chloration service and maintenance design of drip irrigation and lateral lines the evaluation of uniformity of application and an economical analysis for selecting irrigation technology

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

trickle irrigation an examination of trickle irrigation techniques including their application with water of different qualities trickle irrigation report on drip irrigation and similar methods trickle irrigation in the united kingdom

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