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*Irrigation Systems
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*Presents a case study of
the institutional*

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*implications of remodeling
an old irrigation system
in northern Pakistan.*

*Highlights the importance
for donors and project
planners to consider
institutional issues such*

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*as water allocation rules,
operation procedures, and
organizational capacity
for post-construction
system management along
with changes to the
physical infrastructure.*

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Of all the confrontations man has engineered with nature, irrigation systems have had the most widespread and far-reaching impact on the natural environment. Over

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a quarter of a billion hectares of the planet are irrigated and entire countries depend on irrigation for their survival and existence. Considering the importance

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of irrigation schemes, it is unfortunate that until recently the technology and principles of design applied to their construction has hardly changed in 4,000 years.

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Modern thinking on irrigation engineering has benefited from a cross-fertilization of ideas from many other fields including social sciences, control theory, political

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*economics and agriculture.
However, these influences
have been largely ignored
by irrigation engineers.
Drawing on almost 40 years
of experience of
irrigation in the*

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developing world, Laycock introduces new ideas on the design of irrigation systems and combines important issues from the disciplines of social conflict, management, and

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political thinking.

This textbook provides a comprehensive treatment of irrigation engineering for advanced undergraduates and graduate students. It does not require a

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*background in calculus,
hydrology, or hydraulics,
offering a one-stop
overview of the entire
field of study. It
includes everything a
student of irrigation*

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*engineering needs to know:
concepts of climate,
soils, crops, water
quality, hydrology, and
hydraulics, as well as
their application to
design and environmental*

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management. To demonstrate the practical applications of the theories discussed, there are over 300 worked examples and end-of chapter exercises. The exercises allow readers to

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*solve real-world problems
and apply the information
they've learned to a
diverse range of
scenarios. To further
prepare students for their
future careers, each*

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chapter includes many illustrative diagrams and tables containing data to help design irrigation systems. For instructors' use when planning and teaching, a solutions

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*manual can be found online
alongside a suite of
PowerPoint lecture slides.
Design, Planning and
Construction
Irrigation Training Manual
Methods and Implementation*

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*Need for Institutional
Impact Assessment in
Planning Irrigation System
Modernization
All About Sprinklers and
Drip Systems
Practices and Theory*

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This text book is designed to guide students from a basic knowledge of soil, water, plant, hydrologic and hydraulics to the state-of-the-art of irrigation system design,

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**planning and management.
The book will be helpful
to the students of
Agriculture, Agricultural
and Civil Engineering and
other related fields. The
book is written in simple**

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and lucid languages which will make the students interesting in reading the book and understanding the concept of farm irrigation very effectively. The book is written covering the

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**entire syllabus of
Irrigation Engineering
which is taught in various
State Agricultural
Universities and is
written as per the
recommended syllabus of**

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**fifth Deans' Committee
meeting of Indian Council
of Agricultural Research
(ICAR), New Delhi. The book
will not only be helpful
to the students at under-
graduate and post-graduate**

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**level, but also will be a
helping tool for all
practicing irrigation
engineers, agriculturists,
design engineers,
researchers, extension
personnel and all others**

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**who are directly or
indirectly associated with
irrigation science and
engineering.**

**Planning concepts;
Periodic move and fixed
system design**

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**considerations; Traveling
sprinkler design; Center-
pivot design; Linear-move
design; Special uses of
sprinkler systems;
Installation and operation
of sprinkler systems.**

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Closed circuit trickle irrigation is a form of micro irrigation that increases energy and water efficiency by using closed circuit drip irrigation systems designs.

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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

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irrigation lines. This approach has proved successful for the irrigation of fruit trees and some vegetable and field crops. Closed circuits of drip

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irrigation systems require about half of the water needed by sprinkler or surface irrigation. Lower operating pressures and flow rates result in reduced energy costs, and

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a higher degree of water control is attainable as well. Plants can be supplied with more precise amounts of water, and disease and insect damage is reduced because plant

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foliage stays dry.

Fertilizers can also be applied through this type of system, which can result in a reduction of fertilizer and fertilizer costs. This new volume in

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**the Research Advances in
Sustainable Micro
Irrigation book series
presents a diverse
collection of research on
closed circuit
irrigational technology**

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and design and provides studies of its use on such crops as wheat, maize, yellow corn, soybeans, rice, and snap peas. The book explores: • Soil moisture and salinity

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**distributions under
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Design considerations for
closed circuit drip
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sprinkler and drip
irrigation systems • Water**

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**and fertilizer use
efficiencies for drip
irrigated maize •
Evaluation of emitter
clogging for drip
irrigated systems This
book will be valuable for**

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**those interested in
irrigation planning and
management, namely,
researchers, scientists,
educators, upper-level
students, agricultural
extension services, and**

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others.

**Sustainable Micro
Irrigation Design Systems
for Agricultural Crops
Irrigation Engineering
Balanaac and Sta. Maria
River Irrigation Systems**

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**Sprinkle and Trickle
Irrigation
Sprinkler Irrigation
Planning Sprinkler
Irrigation Systems**

*This guide tells how to plan, design, and
efficiently manage sprinkler irrigation*

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systems. Also discussed is “chemigation,” the process of applying an agricultural chemical (fertilizer or pesticide) to the soil or plant surface with an irrigation system. Dozens of photographs, drawings, tables, and equations complement the text. Topics cover:

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System planning and design. Water sources. Sprinkler characteristics. Systems, selection, and management. Pumps, piping, and power units. Chemigation. Sprinkler application of effluent. Country reports; Special papers;

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Workshop group sessions.

This book focuses on irrigation sources together with water management for agricultural development in Uttar Pradesh state of India. Being the most populous state of the country, it bears a burden of feeding about 199 million

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people of which major section relies on agriculture for their subsistence. This study makes comparison in the growth trends in the irrigated area, crop land use patterns and crop productivity at the district level in different periods of time. The book emphasizes on irrigation water

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management to optimize crop yields in order to increase Water Productivity of crops in low productivity regions of the state applying suitable technology. This book appeals to researchers and students in geography and planning working on the topics of agriculture as well as

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*irrigation and water management
aspects.*

*Planning Farm Irrigation Systems
Modernisation Strategy for National
Irrigation Systems in the Philippines
Principles, Processes, Procedures,
Design, and Management*

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*Irrigation Techniques. Solid Set Sprinkler
Systems. Selection, Design, Planning and
Installation*

*Proceedings of an International
Conference*

Irrigation Systems

State-of-the-art GIS spatial data

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management and analysis tools are revolutionizing the field of water resource engineering. Familiarity with these technologies is now a prerequisite for success in engineers' and planners' efforts to create a reliable

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***infrastructure. GIS in Water
Resource Engineering presents a
review of the concepts and
application***

***The Complete Irrigation
Workbook is an educational
guide for the landscape
professional. It covers design,***

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installation, maintenance and water management. It includes formulas, worksheets and end-of-chapter questions that will assure the understanding of the topics. Irrigation Systems Design, Planning and Construction CABI Planning, Design, Operation and

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Maintenance

***Modelling and Management of
Irrigation System
Methods and Practices
Pacific Region, February 15, 1949
Report of a Planning Workshop
on Irrigation Water Management
Past Experience and Implications***

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for Planning and Design

"This edition provides the latest technology in the design of surface, sprinkler, and microirrigation systems along with basic information about soils and current information on estimating crop water requirements.

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New chapters have been added on planning systems, environmental issues, efficiency and uniformity, chemigation, and use of wastewater for irrigation."--taken from Preface, page [iii].

The book presents documentary

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evidence of the insufficiency of rehabilitation works to close the gap between the irrigation service and actual area irrigated of publicly funded national irrigation systems in the Philippines. It outlines a methodology for formulating a modernisation plan

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for national irrigation systems with focus on the mostly ungauged, medium to small canal irrigation systems. The proposed methodology adaptively modified some known modernisation concepts and techniques and integrated them in a more holistic framework in

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the context of changing weather patterns and river flow regimes. It includes in-depth review of rehabilitation works; system diagnosis; revalidation of design assumptions on percolation and water supply; characterisation of system

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management, irrigation service and demand; and drawing up of options and a vision for the modernised irrigation systems. Central to the proposed modernisation strategy is the logical coherence among the design of physical structures, system operation

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and water supply so that improvements of irrigation service are possible. The book discusses the development of the proposed methodology and demonstrates its utility in two case study irrigation systems.

Irrigation methods and components

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*Drawing techniques and presentation
Sprinkler and drip irrigation methods
and hardware Pipe characteristics and
hydraulics Control systems CSI
irrigation specifications
Planning and Evaluation of Irrigation
Projects*

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Theory and Applications

Geographic Information Systems in

Water Resources Engineering

Irrigation

Landscape Irrigation

Design, Installation, Maintenance, and

Water Management

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This new book, Sustainable Micro Irrigation Design Systems for Agricultural Crops, brings together the best research for efficient micro irrigation methods for field crops, focusing on design methods and best

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practices. Covering a multitude of topics, the book presents research and studies on: Indigenous alternatives for use of saline and alkali waters
Hydraulic performance
Distribution of moisture

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Fertigation technology
Buried micro irrigation
laterals Drip irrigation
scheduling Rainwater
harvesting Adoption and
economic impact of a micro
irrigation model This book
is a must for those

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interested in irrigation planning and management, namely, researchers, scientists, educators, and students.

Irrigation is becoming an activity of precision, where combining information

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collected from various sources is necessary to optimally manage resources. New management strategies, such as big data techniques, sensors, artificial intelligence, unmanned aerial vehicles (UAV), and

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new technologies in general, are becoming more relevant every day. As such, modeling techniques, both at the water distribution network and the farm levels, will be essential to gather information from various

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sources and offer useful recommendations for decision-making processes. In this book, 10 high quality papers were selected that cover a wide range of issues that are relevant to the different aspects related to

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irrigation management: water source and distribution network, plot irrigation systems, and crop water management.

Watering equipment,
Sprayers, Irrigation works,
Agricultural equipment,

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Selection, Design, Planning,
Installation
Design and Management

Theory And Practices
Non-agricultural Uses of
Irrigation Systems
The Complete Irrigation

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Irrigation System Design,
Planning and Construction
Planning, design and
management of micro-irrigation
systems require extensive
numerical calculations. The

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introduction of computers in these processes removes much of the complications in calculation and results in more accurate analysis. Not many of the available software can be used to deal with an overall

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irrigation system implementation. Usually, separate software are used for irrigation planning and irrigation systems design. Consequently, this increases the investment cost for using the software in

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irrigation schemes. Hence, an integrated approach for both planning and system design is required. In this study, an integrated computer aided design for micro-irrigation systems was developed. The

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program was written in Visual Basic (version 6.0) and it runs in Windows environment. A user-friendly interface is provided to give more flexibility to the user. This program uses menu bar and toolbar which takes the user to

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all data entry and results dialogs. Additionally, it is designed in such a way that extensive use of tables and graphics will be provided. This program also provides a help file that can be used as a guide for selecting the

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appropriate data during data entry processes. The developed program has the ability to estimate crop water requirements and design of micro irrigation system pipelines. The computation of

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reference crop

evapotranspiration from the available climatic data can be done for daily and monthly time steps, using F AO Penman-Monteith method. Crop water requirement during the whole

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crop growing season can be calculated. Using these data, the program estimates irrigation requirement taking into consideration the available rainfall. All the inputted data and the obtained results can be

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displayed in tabular or graphical forms. The program is also capable of performing analysis of either lateral or sub main unit. All the emitter flows along a lateral or in a sub main unit can be determined. Additionally,

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maximum and minimum emitter flows and their locations can also be determined. Finally, emitter flow variation and pressure variation along a lateral or in a sub main unit are computed. In this stage, tables

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and graphics are also provided. The overall laterals ' layout and emitter flows profile can be displayed in the screen. The developed program can be considered as a tool for preliminary design of micro-

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irrigation systems. It is recommended to extend it to more powerful software by including the design of all irrigation system.

Outlines irrigation options available to homeowners, from

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fully automated sprinklers for a large yard to simple manual drip systems for balcony plants. Explains sprinkler systems and how to install them. Includes a section on maintenance and repairs.

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Weaknesses in planning and implementation (P&I) have been identified as one of the main reasons for the disappointing results of agricultural water development and management projects. Based on a review and

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critical analysis of experiences and case studies in sub-Saharan Africa, this study component proposes practical ways of improving performance related to planning and implementation and thereby enhancing the

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returns to investments in
agricultural water.

A Guide to Golf Course Irrigation
System Design and Drainage
Advances in Planning, Design
and Management of Irrigation
Systems as Related to

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Sustainable Land Use

Design and Operation of Farm

Irrigation Systems

Increasing Water Use Efficiency

Through Improved Irrigation

System Design

Improving irrigation project

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planning and implementation
processes in Sub-Saharan
Africa: Diagnosis and
recommendations
Irrigation Water Management for
Agricultural Development in
Uttar Pradesh, India

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This new book, Sustainable Micro Irrigation Design Systems for Field Crops: Practices and Theory, is unique because it is complete and simple, a one-stop manual, with worldwide applicability to irrigation management in agriculture. It brings together the

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best research for efficient micro irrigation methods for field crops from around the world. Its coverage of the field of micro irrigation includes • An historical review • A review of the current status and potential applications of micro

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irrigation • Basic principles and applications • Research results for vegetable/row/tree crops • Research results on simulation of micro irrigation and wetting patterns • A discussion on the development of software for micro irrigation design •

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Information geared specifically for micro irrigation for small farms and marginal farmers • Design charts for micro irrigation methods in arid, humid, semiarid, and tropical climates • Methods and techniques that can be easily applied to other locations that

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are not covered here This book offers basic practices and design methods of drip/trickle or micro irrigation design that are necessary to understand before designing, developing, and evaluating an agricultural drip irrigation management system. This

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book is a must for those interested in irrigation planning and management, namely, researchers, scientists, educators, and students.

A Guide to Golf Course Irrigation System Design and Drainage details every phase of an irrigation program -

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from the system design to construction, from scheduling to operation, and much more. It also covers the fundamentals of drainage design and installation. Turfgrass managers and golf course superintendents will refer to this handy book often to plan and

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implement effective irrigation systems, ensure appropriate capacity, easy installation, and practical operation and maintenance.

Planning and Evaluation of Irrigation Projects: Methods and Implementation presents the considerations, options

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and factors necessary for effective implementation of irrigation strategies, going further to provide methods for evaluating the efficiency of systems-in-place for remedial correction as needed. As the first book to take this lifecycle approach to

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agricultural irrigation, it includes real-world examples not only on natural resource availability concerns, but also on financial impacts and measurements. With 21 chapters divided into two sections, this book is a valuable resource for agricultural and

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hydrology engineers, conservation scientists and anyone seeking to implement and maintain irrigation systems. Uses real-world examples to present practical insights Incorporates both planning and evaluation for full-scope understanding and application

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Illustrates both potential benefits and limitations of irrigation solutions

Provides potential means to increase crop productivity that can result in improved farm income

Manuel D'irrigation : Planification Développement, Suivi Et Évaluation de

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*L'agricultre Irriguée Avec la
Participation Des Paysans
Sprinkler Irrigation Systems
Sustainable Micro Irrigation Design
Systems for Field Crops
Development of an Integrated
Computer Aided Design Tool for*

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Microirrigation Systems

Guidelines and Computer Programs

*for the Planning and Design of Land
Drainage Systems*

Management Arrangements for

*Accommodating Nonrice Crops in Rice-
based Irrigation Systems*

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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'

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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

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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.

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This manual (most of whose modules were originally published 2001-2002) aims at strengthening various aspects of irrigation development, mainly emphasizing the engineering, agronomic and economic aspects of smallholder irrigation, in view of the limited practical references available in

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this area. It also introduces the irrigation practitioner to the social, health and environmental aspects, providing a bridge between the various disciplines involved in irrigation development.--Publisher's description. This book, first published in 1990 and reprinted here, is a comprehensive,

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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,

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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

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*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*

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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

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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

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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

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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,

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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

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*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*

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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

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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

A Market Research Assessment of the Whole Farm Planning Process

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*The Planning and Design of Irrigation
Distribution Systems*

*Decision Support System for Irrigation
Systems Planning and Design*

Closed Circuit Trickle Irrigation Design

Use of Models for Water Resources

Management, Planning, and Policy

Irrigation Manual