



Sustainable Micro Irrigation: Principles and Practices (Research Advances in Sustainable Micro Irrigation)

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This new book, **Principles and Practices of Sustainable Micro Irrigation**, is the first in the new series on micro irrigation, which offers a vast amount of knowledge and techniques necessary to develop and manage a drip/trickle or micro irrigation system. 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 many important topics in the field, including:

- 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 Hydrocalc software

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

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- Sales Rank: #2391523 in Books
- Published on: 2014-07-14
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x 1.30" w x 6.20" l, .0 pounds
- Binding: Hardcover

- 506 pages

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Editorial Review

About the Author

Dr. Megh R. Goyal received BSc degree in engineering in 1971, MSc degree in 1977, PhD degree in 1979, and Master of Divinity degree in 2001. He spent a one-year sabbatical leave in 2002–03 at the Biomedical Engineering Department of Florida International University, Miami, USA. Since 1971, he has worked as lecturer/research assistant at Haryana Agricultural University and The Ohio State University, and professor – cum research agricultural engineer at Agricultural Experiment Station of the University of Puerto Rico, Mayaguez campus. At present, he is a retired professor in agricultural and biomedical engineering in the College of Engineering at University of Puerto Rico. He is also senior acquisitions editor for Apple Academic Press, Inc., in the areas of agricultural science and biomedical engineering, as well as senior editor-in-chief of the book series *Advances in Bioengineering Research and Applications*, published by AAP. He has authored more than 200 articles in technical journals and textbooks, including *Elements of Agroclimatology* (Spanish) by UNISARC; Colombia, two *Bibliographies on Drip Irrigation*; the books *Biofluid Dynamics of Human Body*, *Management of Drip/Trickle or Micro Irrigation*, *Evapotranspiration: Principles and Applications for Water Management*, and *Biomechanics of Artificial Organs and Prostheses*; as well as the three-volume series on *Research Advances on Sustainable Micro Irrigation*.

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