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Management, Performance, and Applications of Micro Irrigation Systems

Senior Editor-in-Chief: Megh R. Goyal, PhD, PE
Retired Professor in Agricultural and Biomedical Engineering,
University of Puerto Rico, Mayaguez Campus;
Senior Acquisitions Editor, Biomedical Engineering and
Agricultural Science, Apple Academic Press, Inc.

Management, Performance, and Applications of Micro Irrigation Systems, the fourth volume in the Research Advances in Sustainable Micro Irrigation series, emphasizes sustainable and meaningful methods of irrigation to counter rampant water scarcity in many parts of the world that significantly affects crop yield, crop quality, and, consequently, human quality of life.

This important volume presents the best management practices in sustainable micro irrigation, with the goal of increasing crop yield and quality and conserving water. The practices described are practical and attainable and are based on research and studies from many areas of the world, including India, South Africa, and other areas. The applications described can be adapted and applied to many regions with a critical need to address the water crisis in crop production.

The practices and applications presented include:

- partial root-zone surface drip irrigation
- effective maintenance techniques
- web-based irrigation scheduling
- water use efficiency methods
- the use of flushing and filtration systems

This valuable book is a must for those struggling to find ways to address the need to maintain efficient crop production in the midst of water shortages. With chapters from hands-on experts in the field, the book will be an invaluable reference and guide to effective micro irrigation methods.

Books in the Research Advances in Sustainable Micro Irrigation series:

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

Volume 1: Sustainable Micro Irrigation: Principles and Practices

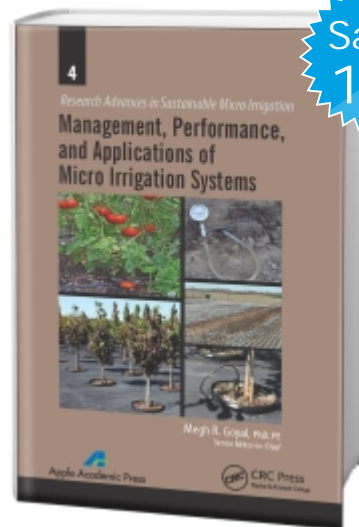
Volume 2: Sustainable Practices in Surface and Subsurface Micro Irrigation

Volume 3: Sustainable Micro Irrigation Management for Trees and Vines

Volume 4: Management, Performance, and Applications of Micro Irrigation Systems

Volume 5: Applications of Furrow and Micro Irrigation in Arid and Semi-Arid Regions

Volume 6: Management Practices for Drip Irrigated Crop



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A. K. Pandey, A. K. Singh, A. Kumar, and S. K. Singh

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ABOUT THE EDITOR

Dr. Megh R. Goyal received a 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*. Readers may contact him at goyalmegh@gmail.com

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