



Water and Fertigation Management in Micro Irrigation (Research Advances in Sustainable Micro Irrigation)

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This important volume, the ninth in the Research Advances in Sustainable Micro Irrigation book series, provides an invaluable addition to the literature and knowledge on the ever-growing need for sustainable irrigation for agricultural crops in many water-scarce parts of the world. The book specifically covers advances in fertigation for water management in general as well as for specific crops, such as peaches, maize, and citrus crops.

Specific topics include:

- The design of various surface and subsurface water emitters
- Using information from weather stations for irrigation purposes
- Ultra low drip irrigation technology
- The management of weeds in crops using micro irrigation
- New technology and advances in fertigation

With chapters from researchers and practitioners in agricultural engineering, water research and technology, soil conservation, and other fields, this compendium provides a wealth of useful information that can be put into practice to enhance crop production.

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Editorial Review

About the Author

Megh R. Goyal, PhD, PE, is a retired professor in agricultural and biomedical engineering from the General Engineering Department in the College of Engineering at University of Puerto Rico–Mayaguez Campus; and senior acquisitions editor and senior technical editor-in-chief in agriculture and biomedical engineering for Apple Academic Press Inc. He received his BSc degree in engineering in 1971 from Punjab Agricultural University, Ludhiana, India; his MSc degree in 1977 and PhD degree in 1979 from the Ohio State University, Columbus; and his master of divinity degree in 2001 from Puerto Rico Evangelical Seminary, Hato Rey, Puerto Rico, USA. He spent one-year sabbatical leave in 2002–2003 at the Biomedical Engineering Department at Florida International University in Miami, Florida, USA. Since 1971, he has worked as soil conservation inspector (1971); research assistant at Haryana Agricultural University (1972–75) and Ohio State University (1975–79); research agricultural engineer/professor at the Department of Agricultural Engineering of UPRM (1979–1997); and professor in agricultural and biomedical engineering in the General Engineering Department of UPRM (1997–2012).

He was the first agricultural engineer to receive the professional license in agricultural engineering in 1986 from College of Engineers and Surveyors of Puerto Rico. On September 16, 2005, he was proclaimed as "Father of Irrigation Engineering in Puerto Rico for the twentieth century" by the ASABE, Puerto Rico Section, for his pioneer work on micro irrigation, evapotranspiration, agroclimatology, and soil and water engineering. During his professional career of 45 years, he has received awards such as Scientist of the Year, Blue Ribbon Extension Award, Research Paper Award, Nolan Mitchell Young Extension Worker Award, Agricultural Engineer of the Year, Citations by Mayors of Juana Diaz and Ponce, Membership Grand Prize for ASAE Campaign, Felix Castro Rodriguez Academic Excellence, Rashtrya Ratan Award and Bharat Excellence Award and Gold Medal, Domingo Marrero Navarro Prize, Adopted Son of Moca, Irrigation Protagonist of UPRM, and Man of Drip Irrigation by Mayor of Municipalities of Mayaguez/Caguas/Ponce and Senate/Secretary of Agriculture of ELA, Puerto Rico.

He has authored more than 200 journal articles and textbooks, including *Elements of Agroclimatology* (Spanish) by UNISARC, Colombia, and two *Bibliographies on Drip Irrigation*. Apple Academic Press Inc. (AAP) has published his books, namely *Biofluid Dynamics of Human Body*, *Management of Drip/Trickle or Micro Irrigation*, *Evapotranspiration: Principles and Applications for Water Management*, *Sustainable Micro Irrigation Design Systems for Agricultural Crops: Practices and Theory*, *Biomechanics of Artificial Organs and Prostheses*, and *Scientific and Technical Terms in Bioengineering and Biotechnology*. During 2014–15, AAP is publishing his ten-volume set, *Research Advances in Sustainable Micro Irrigation*.

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