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Soil Management: Building a Stable Base for Agriculture
Jerry L. Hatfield & Thomas J. Sauer, Editors

Unique because of its treatment of soil management based on principles—the physical, chemical, and biological processes and how together they form the foundation for soil management—this book pulls it all together. Whether new to soil science or needing a concise reference, readers will learn to integrate the science of soils with management issues and long-term conservation. Degradation of soils colliding with increasing climate variation will eventually create a local, regional, or even global crisis, but it’s not too late if we implement our ever-expanding scientific understanding of soils. Jerry L. Hatfield and Thomas J. Sauer, ed. Hardcover, 430 pages. 2011. ASA and SSSA. ISBN: 978-0-89118-853-7. Item: B50804. $100. Members: $80.

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Soil Horizons
Published bimonthly by SSSA as a medium for expressing ideas, problems, and philosophies concerning the study of soils in the field. A publication for all soil enthusiasts, it includes articles on interesting topics in soil science, technical notes, research updates, soil news, profiles in history, and personal essays from the lives of soil scientists. Available online (ISSN 2163-2812). Free to SSSA members. $22 per volume, ASA and CSSSA members. $100 libraries, institutions, and corporations.

Crop Science
Crop Science is the official journal of Crop Science Society of America. Original research is published in crop breeding and genetics; crop physiology and metabolism; crop ecology, management, and quality; seed physiology; production, and technology; turfgrass science; forage and grazinglands; genomics, molecular genetics, and biotechnology; and pest management. Crop Science also publishes invited review and interpretation articles on recent advances in crop science. Six issues per year. Available in print (ISSN 0011-183X), online (ISSN 1435-0653), and CD. $50 per volume, members; additional media $10 each. $696 per volume, libraries and nonmembers; request quote for additional media. Add $57 for international postage.

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The Plant Genome publishes original research that shows clear potential for translating genomic technology into agronomic advancement. The editorial board gives preference to novel reports that use innovative genomic applications that advance our understanding of plant biology and have demonstrative application to crop improvement. The Plant Genome also publishes invited review articles and perspectives that offer insight on recent advances in genomics and their potential for agronomic improvement. The journal publishes three times a year, is online only, and open-access.

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Urban Ecosystem Ecology
If more than half the earth’s people live in cities and the amount of paved surfaces in the United States is equivalent to the area of Ohio, shouldn’t our sciences thrive in the city? This book reconciles environmental sciences with the world’s growing urbanization. From wildlife to water, from urban agriculture to low-impact development, this book explores the ecology of urban and suburban ecosystems, but it puts humans into the ecosystem rather than assigning them positions of onlookers or polluters. Jacqueline Altknecht-Peterson and Astrid Volder, ed. 2010; ASA, CSSA, SSSA. Agron Monogr. 55. ISBN: 978-0-89118-175-0. Item B40728. $100. Members: $80.

Organic Farming: The Ecological System
"...a window on this dynamic system that is shaping the profile of food in this country” Learn about history and certification, ecological knowledge as the basis of sustainability, biodiversity, crop-animal systems, forages, grain, oil seed, specialty crops, soil nutrient needs, vegetation and pest management, marketing, food security, education and research, and the future outlook. Combining farmer experience and wisdom with the best that science has to offer can help us better understand organic systems and how to design them to meet human needs and preserve an environment where we would like to live. Charles Francis, ed. Hardcover, 378 pp., 2009; ASA, CSSA, SSSA. Agron Monogr. 54. ISBN: 978-0-89118-173-6. Item B40726. $70. Members: $56.

Tall Fescue for the Twenty-first Century

Modification of Seed Composition to Promote Health and Nutrition

Nitrogen Fixation in Crop Production
The only book of its kind to present the science, application, and politics of the use of nitrogen-fixing crop plants across the globe in various environments, Be inspired by this problem-solving look forward to the next Green Revolution. From new "omics" approaches to the role of nitrogen fixation in mitigating greenhouse gas emissions, from farming strategies in nonindustrialized nations to nitrogen fixation in the global economy, scientists will find the key issues and expanding research areas, and how they contribute to the next wave of advancements related to agriculture and the environment. David W. Emerich and Hari B. Krishnan, ed. Hardcover, 422 pp., 2009; ASA, CSSA, SSSA. Agron. Monogr. 52. ISBN: 978-0-89118-170-5. Item B40724. $100. Members: $80.

Sulfur: A Missing Link between Soils, Crops, and Nutrition
Readers will benefit from an up-to-date analysis of how the environmental sulfur cycle relates to specific crops and their nutritional needs. Chapters explore the interplay between sulfur and the dietary needs of animals and humans. Previous books have focused on the molecular biology and biochemistry of sulfur metabolism and have not examined the central role of this nutrient as a link between crop yield and quality, animal feed value, and human diet. Joseph Jez, ed. Hardcover, 335 pp., 2008; ASA, CSSA-SSSA. ISBN: 978-0-89118-168-2. Item B40720. $90. Members: $72.

Nitrogen in Agricultural Systems
Nitrogen may well be the most studied nutrient in agricultural systems, but how well do we understand it and apply that knowledge? New research tools and advanced management concepts are presented from a holistic perspective that emphasizes the complexity of the nitrogen cycle. Accountability and nitrogen budgeting are emphasized because they have a strong bearing on management decisions and environmental implications. J.S. Schepers and W.R. Raun, ed. Hardcover, 984 pp., 2008; ASA, CSSA, SSSA. Agron. Monogr. 49. ISBN: 978-0-89118-164-4. Item B10261. $150 Members: $120.

Irrigation of Agricultural Crops, 2nd Edition
It has been estimated that to meet the needs of population by 2025, the irrigated area must expand more than 20% and irrigated crop yields must improve by 40%. The newest technologies are compiled in comprehensive chapters to facilitate sustainable, economical, and environmentally responsible irrigation. Subjects include the latest on monitoring technology, efficiency, and specific information tailored to individual crops. R.J. Lascano and R.E. Sojka, ed. 2007. Hardcover, 664 pp. ASA, CSSA, SSSA. Agron. Monogr. 30, 2nd ed. ISBN: 978-0-89118-162-0. Item B40719. $105. Members: $84.

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Dryland agriculture is of more consequence now than ever because the world’s growing dependence on food produced in these areas. This volume takes a world view of dryland production continent by continent. Initial chapters address the principles as the basis for the following chapters that address dryland farming issues around the world. G.A. Peterson, P.W. Unger, and W.A. Payne, ed. 2006, Hardcover, 1026 pp., ASA, CSSA, SSSA. Agron. Monogr. 23. ISBN: 978-0-89118-160-6. Item B40714. $145. Members: $116.

Roots and Soil Management: Interactions between Roots and the Soil
Readers will discover root-soil interactions and how to use them to manage the productivity of our soils. Learn the four classes of root, the dynamic processes of the rhizosphere, and explore topics such as bio-herbicides, the molecular genetic basis for quorum sensing in a rhizobium species, and interactions among soybean, bradyrhizobia, and VAM fungi. R.W. Zobel and S.F. Wright, ed. 2005, Hardcover, 312 pp., ASA, CSSA, SSSA. Agron. Monogr. 48. ISBN: 978-0-89118-159-0. Item B40713. $70. Members: $56.

Phosphorus: Agriculture and the Environment

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Soil and Water Conservation Advances in the United States
Have agricultural management efforts begun in the desperation of the Dust Bowl brought us to where we need to be tomorrow? Questions about the environmental footprint of farming make this book required reading. Approximately 62% of U.S. land area is used for agriculture, and this land also provides critical ecosystem functions. Authors describe the progress of conservation in U.S. regions and visualize how production practices must change to address new challenges. Ted M. Zobeck and William F. Schilling, ed. Hardcover, 320 pp., 2010; SSSA. SSSA Spec. Publ. 60. ISBN: 978-0-89118-852-0. Item B60936. $60. Members: $48.

Soil Carbon Sequestration and the Greenhouse Effect Second Edition
Observed and predicted climate changes attributed to anthropogenic increases in atmospheric CO2 urgently present the question, what can be done? This edition is required reading for understanding the processes, properties, and practices affecting the soil carbon pool dynamics. New themes are urban soils, minesoils, biochemically recalcitrant compounds, carbonaceous materials, below-ground carbon storage by woody plants, and peat soils. R. Lal and R.F. Follett, ed. Softcover, 452 pp., 2009; SSSA. SSSA Spec. Publ. 57. ISBN: 978-089118-850-6. Item B60917. $70. Members: $56.

Special Publications
Methods of Soil Enzymology
Richard Dick, Editor

Methods in Soil Enzymology provides the first comprehensive set of vetted methods for studying enzymes in soils. Main topics include activity assays, enzyme extraction, and synthetic enzyme complexes. Each method covered includes background information, step-by-step descriptions of the procedure, and special comments regarding nuances, pitfalls, and interpretation of the method. Learn the latest research methods, including enzyme extraction methods and procedures for creating synthetic enzyme complexes, as well as the newest ways to use small-scale and high-throughput methods for enzyme activity assays. In the tradition of SSSA methods books, Methods of Soil Enzymology features a comprehensive approach with a focus on ease of use. Richard P. Dick, ed. Hardcover, 425 pp., 2011; SSSA. SSSA Book Ser. 5. ISBN: 978-0-89118-846-9. Item B60912. $90. Members: $72.

Part 2. Microbiological & Biochemical Properties

One of the primary references on analytical methods in soil science, Part 2 of the Methods series will be useful to all biogeoscientists, especially those with an interest in microbiology or bioremediation. R.W. Weaver, S. Angle, P. Bottomley, ed. Hardcover, 1121 pp., 1994; SSSA. SSSA Book Ser. 5. ISBN: 0-89118-810-X; 978-0-89118-810-0. Item B40301. $65. Members: $52.

Part 3. Chemical Methods


Part 4. Physical Methods

The best single reference for both the theory and practice of soil physical measurements, Methods, Part 4 adopts a more hierarchical approach to allow readers to easily find their specific topic or measurement of interest. As such it is divided into eight main chapters on soil sampling and statistics, the solid, solution, and gas phases, soil heat, solute transport, multi-fluid flow, and erosion. More than 100 world experts contribute detailed sections. J.H. Dane and G.C. Topp, ed. Hardcover, 1692 pp., 2002; SSSA. SSSA Book Ser. 5. ISBN: 0-89118-841-X; 978-0-89118-841-4. Item B40328. $100. Members: $80.

Part 5. Mineralogical Methods

The latest installment in the well-received Methods of Soil Analysis series presents valuable techniques that will enable researchers to analyze mineralogy for a wide variety of applications. An understanding of mineralogical composition provides crucial insight into the fundamental behavior of soils and their response to environmental conditions and management. Highlights include extensive coverage of new techniques, such as X-ray absorption and diffuse reflectance spectroscopy, and updated chapters on thermal analysis and selective dissolution methodologies. Each chapter provides the basic principles of the method, the method itself, and assists in the interpretation and analysis of results. A.L. Ulery and L.R. Drees, ed. Hardcover, 544 pp., 2008; SSSA. SSSA Book Ser. 5. ISBN: 978-0-89118-846-9. Item B60912. $90. Members: $72.

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The International Dimension of the American Society of Agronomy: Past and Future
For more than 100 years scientists have made the American Society of Agronomy a force for international change to improve agriculture. Learn the linkages and meet some of the luminaries. The real treasure of this book is its look forward with "viewpoint" essays from leading agronomists who prophesize the future of world agronomy in the context of changing diets, food crises, biofuels, fertilizer trends, the emergence of organic agriculture, the underinvestment in agricultural research, and more. Bill Payne and John Ryan, ed. Softcover, 126 pp., 2010. ASA. ISBN: 978-0-89118-176-7. Item B10264. $30. Members: $24.

Grassland: Quietness and Strength for a New American Agriculture
Geared toward agriculturists, students, the public, and policy makers, Grassland takes on the task of increasing our awareness of the vital role grass and grassland plants have in ensuring a sustainable future for America. Aiming to inspire and educate, the book’s three main sections highlight the voices of grassland advocates through history, examine the many functions of grassland today, and look at the benefits grass-based agriculture can provide when grass is treated as an essential resource. Includes a foreword by Wendell Berry and a companion CD with the 1948 USDA Grass Yearbook. Walter F. Wedin and Steven L. Fales, ed. Hardcover, 256 pp., 2009; ASA, CSSA, SSSA. ISBN: 978-0-89118-171-2. Item B40722. $80. Members: $64.

From large-scale installations of riparian buffers to family-scale forest farming, agroforestry is a technology that has truly “come of age.” Creating markets for forest-grown products, reducing nonpoint source pollution, protecting waterfowl habitat, diversifying small farm operations—these are a few of the ways agroforestry is moving to the forefront. Readers will learn the main agroforestry practices, with detailed examples, case studies, and strategies for addressing the financial viability of new practices. Perfect for the classroom, each chapter includes a set of study questions. H.E. “Gene” Garrett, ed. Hardcover, 400 pp., 2009; ASA. ISBN: 978-0-89118-163-7. Item B10262. $70. Members: $56.

Soils of Florida

Response of Crops to Limited Water: Understanding and Modeling Water Stress Effects on Plant Growth Processes

Methods of Introducing System Models into Agricultural Research
Laj R. Ahuja and Liwang Ma, Editors
Agricultural system models enhance and extend field research...to synthesize and examine experiment data and advance our knowledge faster, to extend current research in time to predict best management systems, and to prepare for climate-change effects on agriculture. Methods of Introducing System Models into Agricultural Research is the ultimate handbook for field scientists and other model users in the proper methods of model use. Readers will learn parameter estimation, calibration, validation, and extension of experimental results to other weather conditions, soils, and climates. Laj R. Ahuja and Liwang Ma, ed. Hardcover plus companion CD with modeling software, 450 pp., 2011; ASA, CSSA, SSSA. Advances in Agricultural Systems Modeling 2. ISBN: 978-0-89118-180-4. Item B40732. $120. Members: $96. Ships September 2011.
SOIL! Get the Inside Scoop
Get kids excited about the living world of soil! Written for children aged 9–12, with something for children of all ages, this full-color book explores how soil is part of our life—the food we eat, the air we breathe, the water we drink, the houses we live in, and more. Along the way, readers learn about different kinds of soil and meet the scientists who work with soil every day. David Lindbo and others, authors. Softcover, 32 pages, 2008; SSSA. ISBN: 978-089118-848-3. Item B60913. $20. Members: $16. Inquire about volume discounts.

Soil Science: Step-by-Step Field Analysis
Natural resource manager, agronomist, educator, land-use and environmental consultants... The lines are blurred, the questions are complicated, and soil science is required knowledge. Soil Science: Step-by-Step Field Analysis provides the knowledge for conducting specific activities related to improved natural resource management. Readers will learn both new procedures and tips for improved performance in the field, without a lot of background theory and with a focus on usefulness for real-life applications. Sally Logsdon, Dave Clay, Demie Moore, Teferi Tsegaye, ed. Water-resistant softcover with coil binding, 255 pp., 2008; SSSA. ISBN: 978-089118-849-0. Item B60915. $75. Members: $60. Also Available as Chapter Downloads at www.SocietyStore.org.

Genetics: A Laboratory Manual

Practical Perspectives on Science Education
Science educators will benefit from reading the 20+ essays that provide many no-nonsense teaching tips and insights about science education. They represent Druger's personal reflections, based upon his experience in teaching more than 40,000 students during his career. Teachers will be moved and motivated after reading this inspirational book. Marvin Druger, author. Softcover, 138 pp., 2010. ASA. ISBN: 978-0-89118-174-3. Item B10263. $25. Members: $20.
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