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1996-2015, Amazon.com, Inc. or its subsidiaries for undergraduate courses in the introduction soils, the basics of soil science and soil management. Focusing on the basics, this book explores an important world of soil and principles that can be used to minimize the degradation and destruction of one of our most important natural resources. Fully updated in this release, includes the latest information on soil colloids; nutrient cycles and soil fertility; soil and chemical pollution. This release is filled with hundreds of new figures and photos and continues to use examples from many areas, including agriculture, forestry and natural resources. Taking an ecological approach, he stresses that the soil system is interconnected and the principles behind each soil concept. For undergraduate courses, introduction to soils, soil science basics and soil management. Focusing on the basics, this book explores an important world of soil and principles that can be used to minimize the degradation and destruction of one of our most important natural resources. Fully updated in this release, includes the latest information on soil colloids; nutrient cycles and soil fertility; soil and chemical pollution. This release is filled with hundreds of new figures and photos and continues to use examples from many areas, including agriculture, forestry and natural resources. Taking an ecological approach, he stresses that the soil system is interconnected and the principles behind each soil concept. Harknall has an ecological approach. It takes a soil as a part of a larger ecosystem, where energy flows between organisms at any particular point. The author's approach is to present a series of vignettes, which are short stories that illustrate the concepts of soil science. Examples from the forest, agriculture, forestry and agriculture cross-sectioned across all cultural themes to provide applications from additional study areas. Technical details are boxed for calculation. The reader is strongly encouraged to explore and supplement the material by reading original research papers. It singles out fascinating anecdotes from the real world and makes the interest and imagination of students. Unique schematic diagrams and photos. It visually illustrates concepts and shows relationships, applications and field studies to many different areas of study. Cross-reference. It strengthens the idea that all aspects of the soil system are interconnected. Allows instructors to use book chapters in any order of preference. Complete glossary of terms – contains the most complete soil glossary conditions available. Fully updated in this release to include: Updated section on soil engineering properties – see Chapter 4. Extended soil quality treatment, soil degradation and soil resistance – see Chapter 1, 11, 12 and 13. The new section on septic tank drain fields – see Chapter 6 Expanded Irrigation Management Section – see Chapter 6. A new section on wetlands and their poorly carbonated soils – see Chapter 7. New! Look for hundreds of new references and a new discussion on topics such as: Cation exchange reactions Binding biomolecules to soil colloids Characteristics and problems of alkaline soil and more! Revised! Chapter 12 contains all the material on the cycles and processes of nutrients. It offers a simplified organization that covers all macro and micronutrients in one chapter. New! New chapter on soil quality and pollution – see Chapter 15. It includes information on pesticides, organic pollutants, mule, heavy metals, landfills, radionuclides and radon gas. New! More full-color photos (111) and black and white photos (350). It provides new figures and images that illustrate concepts in a very visual way. 1. Soils around us 2. Soil formation from mother materials 3. Soil classification 4. Soil architecture and physical properties 5. Soil water characteristics and behavior 6. Soil and hydrological cycle 7. Soil air and temperature 8. Soil colloids: Headquarters of life 9. Soil erosion and sedimentation 10. Soil degradation and restoration 11. Soil quality assessment 12. Soil remediation 13. Soil conservation 14. Soil pollution 15. Soil management. Practical Nutrient Management, 3rd Edition. Pearson Education, Inc., 2004. ISBN: 0-13-065555-1. For more information on this book, please visit the website: www.pearsoncmg.com. If you need help getting started, read the tutorials on the TestGen page. Online Instructors Manual for Elements of Nature and Soil Properties, 3rd Edition Online PowerPoint for Elements of Nature and Soil Properties, 3rd Edition Pearson offers affordable and accessible purchasing options to meet the needs of your students. Connect with us to learn more. K12 Teachers: Contact the CEO of the Savvas learning company account for purchase options. Instant Access ISBNs are for individuals who buy with credit cards or PayPal. Savvas Learning Company is a trademark of Savvas Learning Company LLC. For introductory courses in soils. An affordable introduction to the basics of soil science in the foreground of soil science for more than a century, Elements of nature and soil properties consider the role of soil both a natural resource and an ecosystem, highlighting interactions between soil and other natural and built ecosystems. With practical value to meet today's environmental challenges, the text argues that balancing economic growth with sustainable economies requires a deep understanding of the soil. The 4th edition was shortened to focus on the basics, providing new or updated discussions on topics such as soils and human health, organic farming and soil food and web ecology. The sample chapter is available for download in PDF format. This material is protected under all copyright laws, as they currently exist. No part of this material can be reproduced in any form or in any way, without permission in writing from the publisher. Ecological approach with an eye on the social implications Students get a broad view of soils in the environment and in relation to human society - for example, the links between plant growth and wildlife habitats, food, bioenergy, clothing, pharmaceuticals and biotechnology, climate change and human health, urban and human engineered soils, and many others. Increased emphasis on the basics of soil science Focus on the principles of soil science rather than more technical aspects, gives students the crucial fundamental understanding they need before moving on to more complex subjects. Revised - The new edition is significantly shortened, from 20 to 15 chapters and from nearly 1,100 pages to about 600 pages. Updated - Each chapter is thoroughly updated with the latest advances, concepts and applications in discipline, ensuring that students' knowledge reflects the most top-level schools of thought. Vignettes and application boxes Real-world anecdotes keep students' interest and imagination buoyed. Updated - New or improved boxes with compelling examples (e.g. Dinner Diet) or technical details and calculations (e.g. Updated - The new edition is the first to contain full-color illustrations, improving new and refined figures and illustrations to make soil study more efficient, interesting and intellectually satisfying. 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