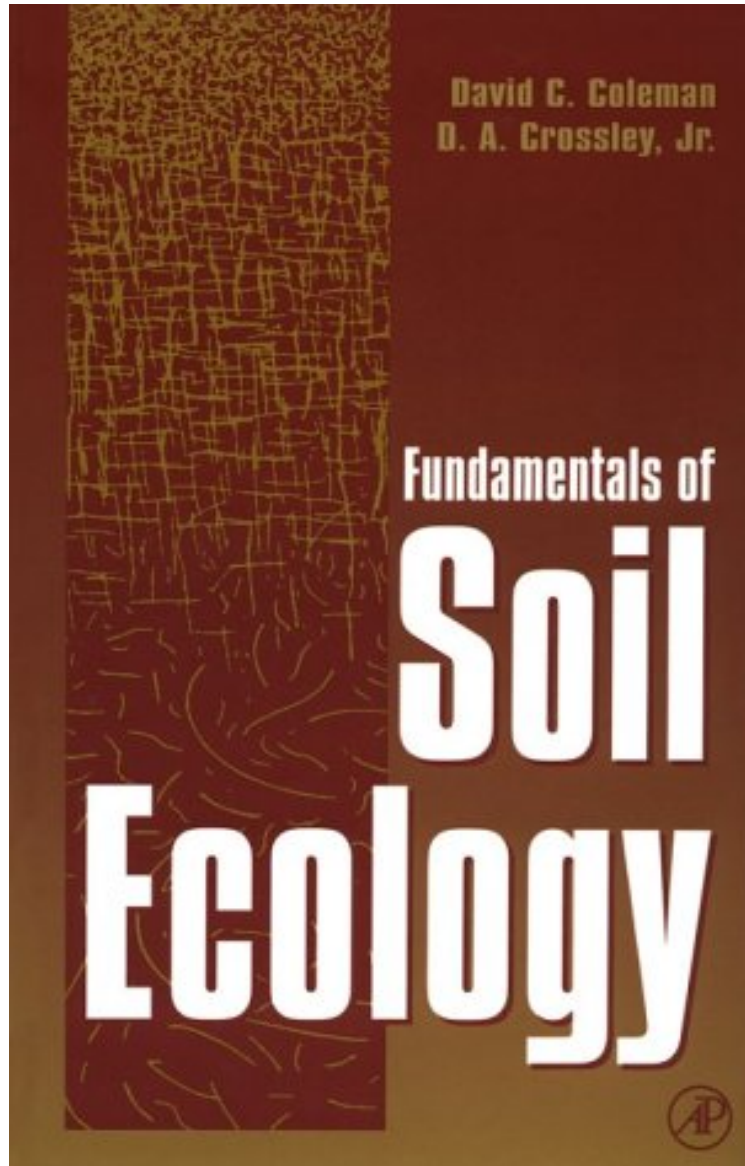


(Read free) Fundamentals of Soil Ecology

Fundamentals of Soil Ecology

David C. Coleman, D. A. Crossley Jr.

**Download PDF | ePub | DOC | audiobook | ebooks*



 Download

 Read Online

#3062062 in Books 1996-01-31 Original language: English PDF # 1 .61 x 6.23 x 9.261, #File Name: 0121797252205 pages | File size: 20.Mb

David C. Coleman, D. A. Crossley Jr. : Fundamentals of Soil Ecology before purchasing it in order to gage whether or not it would be worth my time, and all praised Fundamentals of Soil Ecology:

2 of 2 people found the following review helpful. Not sure about "fundamentals" By KatieI recently graduated with my masters degree in Conservation Biology and was hoping to read this book to get a background in soil ecology. Even having studied ecology, this book is somewhat difficult to understand without having any prior soil science background. This may be partially due to the organization (the authors refer to lingo that they only define later on). I'm

not all the way through the book yet so it might be better later on. I think the organization could have been much better. 0 of 0 people found the following review helpful. Not over my head By Meg It's not difficult to understand and it provides great insight and context for people interested in soil ecology. 0 of 0 people found the following review helpful. Five Stars By Customer I really enjoy this book!

This graduate level text reference is designed to be a bridge between ecologists and soil scientists. There is increasing awareness that soil is the organizing center for all terrestrial ecosystems. This text examines why this is so, in terms of the physics, chemistry, and biology of soil ecosystems. Biodiversity and global change and the important role soils play in global carbon balance are also discussed. Fundamentals of Soil Ecology will be a valuable addition to your research library. Key Features* Fundamentals of Soil Ecology is a holistic approach to soil biology and ecosystem function and treats soils as:* Living entities, not "black boxes"* Organizing centers for how ecosystems function over time* Filled with diverse biota, fauna, microbes, and roots

"This is a superbly crafted primer for anyone interested in the burgeoning field of soil ecology. It builds a conceptual framework and provides context for more in-depth analysis of the primary literature. It masterfully presents much of its information as figures and tables taken from primary literature, and provides just enough information to entice readers to seek more details from the original work. Coleman and Crossley blend their tremendous wealth of experience, to present an historical perspective of the field as no other writers could. It is refreshing to read such a thorough and effective coverage of classic studies pertaining to soil ecology."--THE QUARTERLY REVIEW OF BIOLOGY "This is an excellent primer for serious students. There are more than 500 references, most of which are either classics or recent good work. There are lots of interesting tidbits to keep the reader going. I enthused on about the merits of this book to a colleague who teaches soil biology, only to discover he has already used it in class, and was equally enthusiastic."--Steve Sheppard in JOURNAL OF ENVIRONMENTAL QUALITY From the Back Cover This graduate level text reference is designed to be a bridge between ecologists and soil scientists. There is increasing awareness that soil is the organizing center for all terrestrial ecosystems. This text examines why this is so, in terms of the physics, chemistry, and biology of soil ecosystems. Biodiversity and global change and the important role soils play in global carbon balance are also discussed. Fundamentals of Soil Ecology is a holistic approach to soil biology and ecosystem function and treats soils as:* Living entities, not "black boxes"* Organizing centers for how ecosystems function over time* Filled with diverse biota, fauna, microbes, and roots Fundamentals of Soil Ecology will be a valuable addition to your research library About the Author David C. Coleman has been a lifelong soil ecologist with interests in soil biodiversity and biogeochemical cycling. He conducted research at the Savannah River Ecology Laboratory of the University of Georgia (1965-1971), and the Natural Resource Ecology Laboratory, Colorado State University (1972-1985). While there, he also progressed through the ranks from Assistant to Associate and Full Professor of Zoology and Entomology at CSU. From 1985 he has been a Distinguished Research Professor of Ecology in the Institute of Ecology and later the Odum School of Ecology of the University of Georgia. He has been Professor Emeritus since 2005. During the academic year of 1979-1980, Coleman was visiting Research Fellow at the Department of Scientific and Industrial Research (DSIR) Institute of Nuclear Sciences and Soil Bureau in Lower Hutt, New Zealand. David received the Distinguished Service award from the Soil Ecology Society in 1999 and the Distinguished Ecosystem Scientist award from the Natural Resource Ecology Laboratory in 2002. He served on several advisory panels on Ecology and Ecosystems with the National Science Foundation and on an advisory panel on Alternative Agriculture for the National Research Council. His research has concentrated on microbial-faunal interactions in detrital food webs in agroecosystems, e.g, Horseshoe Bend, near Athens, and in forested watersheds at the Coweeta Hydrologic Laboratory in western North Carolina, as part of the Coweeta Long Term Ecological Research (LTER) study. From 1996-2002 he was co-lead PI on the Coweeta LTER project. He was also a McMaster Visiting Research Fellow at CSIRO, Adelaide, South Australia, January-April 2006. David served as co-Chief Editor of Soil Biology and Biochemistry from 1998 to 2010 and serves as its Editor currently. He serves on editorial boards of several other soil biology journals. He has published over 300 refereed journal articles and books and is senior author of Fundamentals of Soil Ecology (second edition, 2004), and the author of Big Ecology: The Emergence of Ecosystem Science (2010). Dac Crossley is a Professor Emeritus of Ecology at the Odum School of Ecology, University of Georgia, Athens, USA. He served as Director the Graduate Program in Ecology, at the Institute of Ecology at UGA since its inception. He was Principal Investigator of the Coweeta Long-Term Ecological Research site in North Carolina. He has served as editor and reviewer of numerous ecological and entomological journals. He currently serves as an associate curator at the Georgia Museum of Natural History where he curates the soil mite collection.