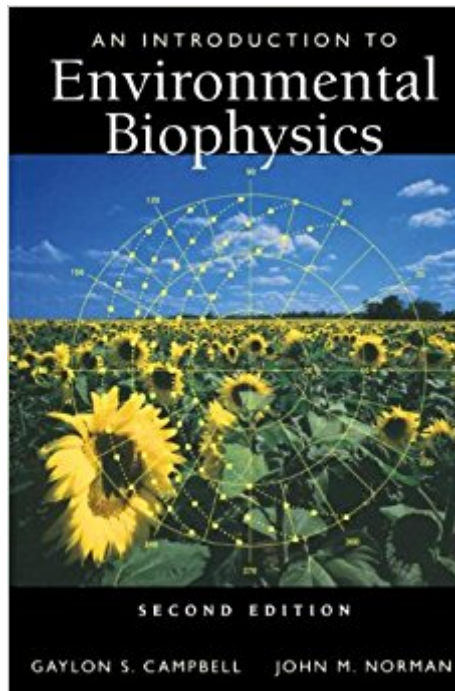


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An Introduction To Environmental Biophysics (Modern Acoustics And Signal)



Synopsis

From reviews of the first edition: "well organized . . . Recommended as an introductory text for undergraduates" -- AAAS Science Books and Films "well written and illustrated" -- Bulletin of the American Meteorological Society

Book Information

Series: Modern Acoustics and Signal

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Average Customer Review: 4.0 out of 5 stars -- See all reviews (4 customer reviews)

Best Sellers Rank: #697,331 in Books (See Top 100 in Books) #124 in Books > Science & Math > Biological Sciences > Biophysics #497 in Books > Science & Math > Biological Sciences > Biology > Molecular Biology #1024 in Books > Science & Math > Biological Sciences > Botany

Customer Reviews

This text is an excellent companion for anybody dealing with transfers of energy and water in the biosphere, particularly at the plant-canopy level. Badly needed since the only comparable textbook is Monteith & Unsworth - a little outdated and more physically based than this one, which is more bio-oriented and includes current remote sensing use. Excellent reference, and well organized course textbook. There are some mistakes but I know of a second edition appearing this year which will correct them.

Campbell's text is a classic. It stands up as well today as when it was first published. The book provides a thoughtful and clear introduction to biophysics and its many practical applications. While this book may not have the depth of information on specific topics as some others, it provides a thorough foundation for those interested in the field and is an the perfect springboard to more advanced text. It is also an excellent quick reference for those who study land-atmosphere processes on a daily basis. It is replete with the equations and tables of physical parameters that are commonly used and give clear instructions on their proper application. I would strongly

recommend this book as a classic in the field.

Campbell is thorough in his approach to biophysical analysis of multiple environmental scenarios. As a text book, it is fairly dense and provides hints on how to solve specific problems throughout the text. However, finding those hints is sometimes fairly tricky. The equations presented are the latest version of the equations, but some may produce skewed answers in extreme conditions. Living in interior Alaska, some of Campbell's formulas and tables just don't cut it for winter and high-latitude conditions. All in all a solid book though, despite its initial density and sometimes insufficient clarity.

This book has a lot of great information that is very useful for quantitation of matter and energy fluxes in the environment. However....the book quality (paperback) is extremely poor. This is the only book in the last 7 years that I've managed to get so frustrated with that I almost dislike the book...(hence 3 stars). I find it impossible to stay on one page with bracing the book with both hands...and I accidentally tore the backing apart a little bit just trying to keep it open. Arrrggghhh.....Overall great resource though.

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