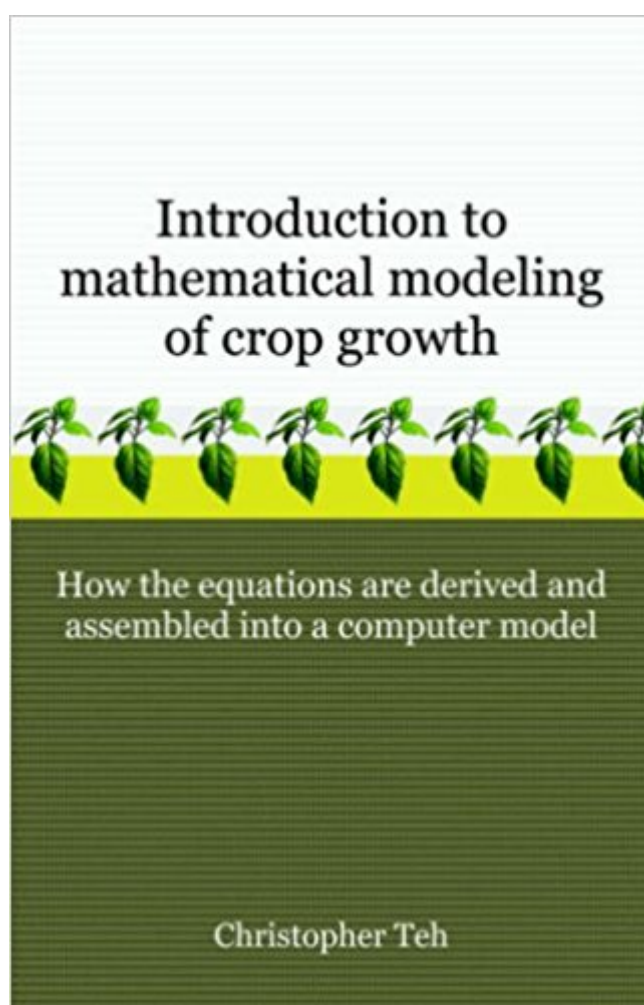


The book was found

Introduction To Mathematical Modeling Of Crop Growth: How The Equations Are Derived And Assembled Into A Computer Program



Synopsis

Learning mathematical modeling need not be difficult. Unlike other books, this book not only lists the equations one-by-one, but explains in detail how they are each derived, used, and finally assembled into a computer program for model simulations. This book shows how mathematics is applied in agriculture, in particular to modeling the growth and yield of a generic crop. Topics covered are agriculture meteorology, solar radiation interception and absorption, evapotranspiration, energy and soil water balance, soil water flow, photosynthesis, respiration, and crop growth development. Rather than covering many modeling approaches but in superficial detail, this book selects one or two widely-used modeling approaches and discusses about them in depth. Principles learned from this book equips readers when they encounter other modeling approaches or when they develop their own crop models.

Book Information

Paperback: 280 pages

Publisher: Brown Walker Press (April 21, 2006)

Language: English

ISBN-10: 1581129998

ISBN-13: 978-1581129991

Product Dimensions: 5.5 x 0.6 x 8.5 inches

Shipping Weight: 13.4 ounces (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 4 customer reviews

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Customer Reviews

Christopher Teh Boon Sung completed his Ph.D. in agriculture at University of Reading, U.K. in 2001, and he is now a lecturer at Universiti Putra Malaysia, Serdang. His fields of specialty are environmental biophysics, crop modeling and C++ programming. He has numerous publications in local and international journals as well as in conference proceedings. He served as the Chief Editor for the Proceedings of the Malaysian Soil Science Conference 2005. He is currently the Honorary Secretary for the Malaysian Soil Science Society (MSSS).

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Interesting book for beginners in crop modeling

Nice book and good price. I recommend it for who likes to know and develop crop models. It shows the equations and lists the source code in C++.

This book shows you how to develop an understanding of plant-soil-climate interaction and how to put them in model and finally programming. I suggest this book to anyone who wants to get into modeling.

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