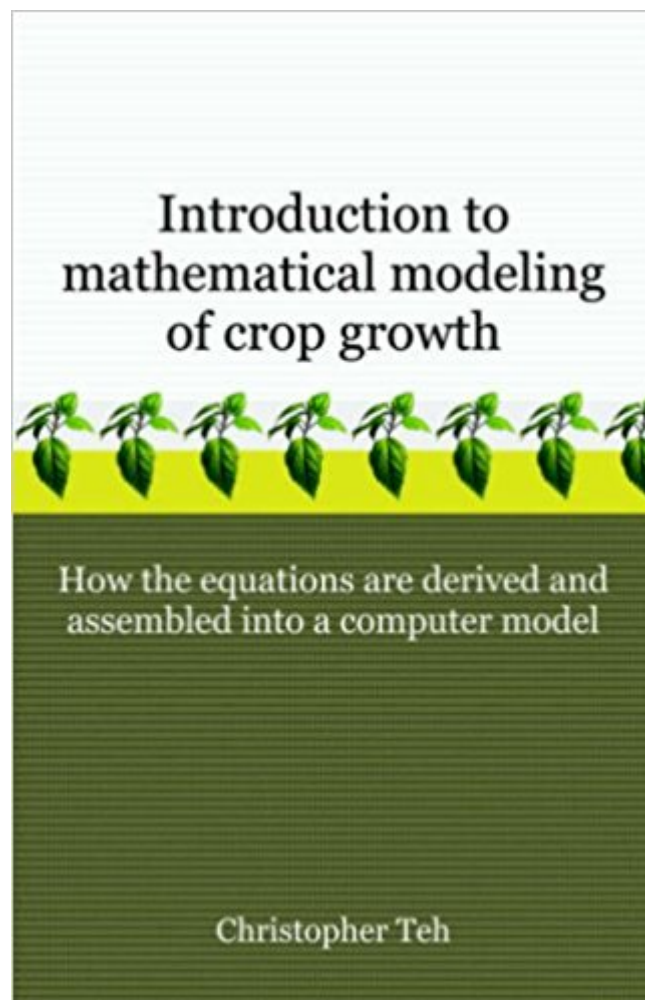The book was found

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

Best Sellers Rank: #780,963 in Books (See Top 100 in Books)   #156 inÃ Â Books > Science & Math > Agricultural Sciences > Crop Science   #30161 inÃ Â Books > Engineering & Transportation > Engineering

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).

ok

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.

Introduction to Mathematical Modeling of Crop Growth: How the Equations are Derived and Assembled into a Computer Program Crop Management and Postharvest Handling of Horticultural Products: Crop Fertilization, Nutrition and Growth Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Partial Differential Equations of Mathematical Physics and Integral Equations (Dover Books on Mathematics) My Father Was a Crop Duster: The Story of Atwood Crop Dusters [Differential Equations, Dynamical Systems, and an Introduction to Chaos [DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. (Author) Mar-26-2012] By Hirsch, Morris W. (Author) [2012) [Paperback] A Manual of Facial Growth: A Computer Analysis of Longitudinal Cephalometric Growth Data (Oxford Medical Publications) A Course in Mathematical Modeling (Mathematical Association of America Textbooks) 1st Grade Computer Basics : The Computer and Its Parts: Computers for Kids First Grade (Children's Computer Hardware Books) Aerogels Handbook (Advances in Sol-Gel Derived Materials and Technologies) Patient Derived Tumor Xenograft Models: Promise, Potential and Practice Cyclopropane Derived Reactive Intermediates Updates (Patai's Chemistry of Functional Groups) The Model's Bible & Global Modeling Agency Contact List - An Insider's Guide on How to Break into the Fashion Modeling Industry Transformations Of Coordinates, Vectors, Matrices And Tensors Part I: LAGRANGEÃ¢â ¬â„¢S EQUATIONS, HAMILTONÃ¢â ¬â„¢S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) Student's Solutions Manual for Fundamentals of Differential Equations 8e and Fundamentals of Differential Equations and Boundary Value Problems 6e How Einstein gives Dirac, Klein-Gordon and SchrÃƒÂ¶dinger: Deriving the SchrÃƒÂ¶dinger, Dirac and Klein-Gordon Equations from the Einstein-Field-Equations

via an Intelligent Zero Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Numerical Partial Differential Equations: Conservation Laws and Elliptic Equations (Texts in Applied Mathematics) (v. 33) Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations: Improve Your Math Fluency Series