

Understanding Complex Ecosystem Dynamics

A Systems and Engineering Perspective

William S. Yackinous



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N Colangelo



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Understanding Complex Ecosystem Dynamics William S. Yackinous, 2015-06-03 Understanding Complex Ecosystem Dynamics A Systems and Engineering Perspective takes a fresh interdisciplinary perspective on complex system dynamics beginning with a discussion of relevant systems and engineering skills and practices including an explanation of the systems approach and its major elements From this perspective the author formulates an ecosystem dynamics functionality based framework to guide ecological investigations Next because complex system theory across many subject matter areas is crucial to the work of this book relevant network theory nonlinear dynamics theory cellular automata theory and roughness fractal theory is covered in some detail This material serves as an important resource as the book proceeds In the context of all of the foregoing discussion and investigation a view of the characteristics of ecological network dynamics is constructed This view in turn is the basis for the central hypothesis of the book i e ecological networks are ever changing networks with propagation dynamics that are punctuated local to global and perhaps most importantly fractal To analyze and fully test this hypothesis an innovative ecological network dynamics model is defined designed and developed The modeling approach which seeks to emulate features of real world ecological networks does not make a priori assumptions about ecological network dynamics but rather lets the dynamics develop as the model simulation runs Model analysis results corroborate the central hypothesis Additional important insights and principles are suggested by the model analysis results and by the other supporting investigations of this book and can serve as a basis for going forward complex system dynamics research not only for ecological systems but for complex systems in general Provides a fresh interdisciplinary perspective offers a broad integrated development and contains many new ideas Clearly explains the elements of the systems approach and applies them throughout the book Takes on the challenging and open issues of complex system network dynamics Develops and utilizes a new innovative ecosystem dynamics modeling approach Contains over 135 graphic illustrations to help the reader visualize and understand important concepts *Engineering Hydrology for Natural Resources Engineers* Ernest W.

Tollner, 2023-08-14 This fully revised edition provides a modern overview of the intersection of hydrology water quality and water management at the rural urban interface The book explores the ecosystem services available in wetlands natural channels and ponds lakes As in the first edition Part I examines the hydrologic cycle by providing strategies for quantifying each component rainfall with NOAA 14 infiltration evapotranspiration and runoff Part II examines field and farm scale water quality with an introduction to erosion prediction and water quality Part III provides a concise examination of water management on the field and farm scale emphasizing channel design field control structures measurement structures groundwater processes and irrigation principles Part IV then concludes the text with a treatment of basin scale processes A comprehensive suite of software tools is available for download consisting of Excel spreadsheets with some public domain models such as HY 8 culvert design and software with public domain readers such as Mathematica Maple and TK solver

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Isaza, Óscar Cardona, Omar Danilo Castrillón, Juan Manuel Corchado Rodriguez, Fernando De la Prieta Pintado, 2023-09-01 This book presents the latest scientific and technical advances in the fields of Smart Cities and Smart Territories It shows outcomes of 2nd Sustainable Smart Cities and Territories International Conference in Manizales Colombia on June 21 23 2023 The concept of smart cities which emerged in the early 2000s attempts to solve these challenges by implementing information and communication technologies The initial concept of smart cities focused on the modernization of megacities

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