



An Introduction to Mathematical Physiology and Biology (Cambridge Studies in Mathematical Biology)

J. Mazumdar

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This textbook is concerned with the mathematical modeling of biological and physiological phenomena for mathematically sophisticated students. A range of topics are discussed: diffusion population dynamics, autonomous differential equations and the stability of ecosystems, biogeography, pharmacokinetics, biofluid mechanics, cardiac mechanics, the spectral analysis of heart sounds using FFT techniques. The last chapter deals with a wide variety of commonly used medical devices. This edition includes new chapters on epidemiology, including modeling the spread of AIDS through a population. Coverage is based on courses taught by the author over many years and the material is class tested. The reader is aided by many exercises that examine key points and extend the presentation in the body of the text. All students of mathematical biology will find this book to be a highly useful resource.

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