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An introduction to the mathematical
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the construction and analysis of models in molecular systems biology. Systems techniques are integral to current research in molecular cell biology, and system-level investigations are often accompanied by mathematical models. These models serve as working hypotheses:

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they help us to understand and predict the behavior of complex systems. This book offers an introduction to mathematical concepts and techniques needed for the construction and interpretation of models in molecular systems biology. It is accessible to upper-level

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undergraduate or graduate students in life science or engineering who have some familiarity with calculus, and will be a useful reference for researchers at all levels. The first four chapters cover the basics of mathematical modeling in molecular systems biology. The last four chapters address

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specific biological domains, treating modeling of metabolic networks, of signal transduction pathways, of gene regulatory networks, and of electrophysiology and neuronal action potentials. Chapters 3–8 end with optional sections that address more specialized modeling topics.

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Exercises, solvable with pen-and-paper calculations, appear throughout the text to encourage interaction with the mathematical techniques. More involved end-of-chapter problem sets require computational software. Appendixes provide a review of basic concepts of molecular biology,

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additional mathematical background material, and tutorials for two computational software packages (XPPAUT and MATLAB) that can be used for model simulation and analysis.

Stochastic Dynamics for Systems Biology is one of the first books to

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provide a systematic study of the many stochastic models used in systems biology. The book shows how the mathematical models are used as technical tools for simulating biological processes and how the models lead to conceptual insights on the functioning of the cellular processing

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This book covers applications of fractional calculus used for medical and health science. It offers a collection of research articles built into chapters on classical and modern dynamical systems formulated by fractional differential equations describing human diseases and how

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to control them. The mathematical results included in the book will be helpful to mathematicians and doctors by enabling them to explain real-life problems accurately. The book will also offer case studies of real-life situations with an emphasis on describing the mathematical results

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and showing how to apply the results to medical and health science, and at the same time highlighting modeling strategies. The book will be useful to graduate level students, educators and researchers interested in mathematics and medical science.

Covers applicable mathematics that

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should provide a text, at the third year level and beyond, appropriate for both students of engineering and the pure sciences. The book is a product of close collaboration between two mathematicians and an engineer and it is of note that the engineer has been helpful in pinpointing the problems

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engineering students usually encounter in books written by mathematicians. Instead of just listing techniques and a few examples, or providing a list of theorems along with their proofs, it explains why the techniques work. The emphasis is on helping the student develop an

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understanding of mathematics and its applications.

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the computational tools
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Problems with**

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**Models Research Interlude:
Making Figures Projects for
Predatory-Prey
Models Infectious Disease
Modeling: SIR Model for
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**Disease Models Classroom
Tested Projects Readership:
Undergraduates in
biomathematics,
mathematical biology,
mathematical modeling,
applied mathematics, and**

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dynamical systems.

For a two-semester or three-semester course in Calculus for Life Sciences. Calculus for Biology and Medicine, Third Edition, addresses the needs of students in the

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biological sciences by showing them how to use calculus to analyze natural phenomena-without compromising the rigorous presentation of the mathematics. While the

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table of contents aligns well with a traditional calculus text, all the concepts are presented through biological and medical applications. The text provides students with the knowledge and

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skills necessary to analyze and interpret mathematical models of a diverse array of phenomena in the living world. Since this text is written for college freshmen, the examples

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were chosen so that no formal training in biology is needed.

Fractional calculus is a rapidly growing field of research, at the interface between probability,

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differential equations, and mathematical physics. It is used to model anomalous diffusion, in which a cloud of particles spreads in a different manner than traditional diffusion. This

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monograph develops the basic theory of fractional calculus and anomalous diffusion, from the point of view of probability. In this book, we will see how fractional calculus and

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anomalous diffusion can be understood at a deep and intuitive level, using ideas from probability. It covers basic limit theorems for random variables and random vectors with heavy

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tails. This includes regular variation, triangular arrays, infinitely divisible laws, random walks, and stochastic process convergence in the Skorokhod topology. The

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basic ideas of fractional calculus and anomalous diffusion are closely connected with heavy tail limit theorems. Heavy tails are applied in finance, insurance, physics,

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**geophysics, cell biology,
ecology, medicine, and
computer engineering. The
goal of this book is to
prepare graduate students
in probability for research in
the area of fractional**

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**calculus, anomalous
diffusion, and heavy tails.
Many interesting problems
in this area remain open.
This book will guide the
motivated reader to
understand the essential**

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**background needed to read
and understand current
research papers, and to gain
the insights and techniques
needed to begin making
their own contributions to
this rapidly growing field.**

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This volume teaches calculus in the biology context without compromising the level of regular calculus. The material is organized in the standard way and explains how the different concepts

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are logically related. Each new concept is typically introduced with a biological example; the concept is then developed without the biological context and then the concept is tied into

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**additional biological
examples. This allows
readers to first see why a
certain concept is important,
then lets them focus on how
to use the
concepts without getting**

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**distracted by applications,
and then, once readers feel
more comfortable with the
concepts, it revisits the
biological applications to
make sure that they
can apply the concepts. The**

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book features exceptionally detailed, step-by-step, worked-out examples and a variety of problems, including an unusually large number of word problems. The volume begins

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**with a preview and review
and moves into discrete
time models, sequences,
and difference equations,
limits and continuity,
differentiation, applications
of differentiation,**

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This richly illustrated textbook covers modern statistical methods with applications in medicine, epidemiology and biology. Firstly, it discusses the importance of statistical models in applied quantitative

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research and the central role of the likelihood function, describing likelihood-based inference from a frequentist viewpoint, and exploring the properties of the maximum likelihood estimate, the score

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conjugate and reference priors, Bayesian point and interval estimates, Bayesian asymptotics and empirical Bayes methods. It includes a separate chapter on modern numerical techniques for

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Bayesian inference, and also addresses advanced topics, such as model choice and prediction from frequentist and Bayesian perspectives. This revised edition of the book “Applied Statistical

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Inference” has been expanded to include new material on Markov models for time series analysis. It also features a comprehensive appendix covering the prerequisites in probability theory, matrix

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*populations in an ecosystem,
to hormone regulation within
the body, the natural world
abounds in dynamical systems
that affect us profoundly.
Complex feedback relations
and counter-intuitive*

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responses are common in nature; this book develops the quantitative skills needed to explore these interactions. Differential equations are the natural mathematical tool for quantifying change, and are

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the driving force throughout this book. The use of Euler's method makes nonlinear examples tractable and accessible to a broad spectrum of early-stage undergraduates, thus providing a practical

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alternative to the procedural approach of a traditional Calculus curriculum. Tools are developed within numerous, relevant examples, with an emphasis on the construction, evaluation, and interpretation

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of mathematical models throughout. Encountering these concepts in context, students learn not only quantitative techniques, but how to bridge between biological and mathematical

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ways of thinking. Examples range broadly, exploring the dynamics of neurons and the immune system, through to population dynamics and the Google PageRank algorithm. Each scenario relies only on an

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*interest in the natural world;
no biological expertise is
assumed of student or
instructor. Building on a single
prerequisite of Precalculus,
the book suits a two-quarter
sequence for first or second*

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year undergraduates, and meets the mathematical requirements of medical school entry. The later material provides opportunities for more advanced students in both

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*mathematics and life sciences
to revisit theoretical
knowledge in a rich, real-world
framework. In all cases, the
focus is clear: how does the
math help us understand the
science?*

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Freshman and sophomore life sciences students respond well to the modeling approach to calculus, difference equations, and differential equations presented in this book. Examples of population

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dynamics, pharmacokinetics, and biologically relevant physical processes are introduced in Chapter 1, and these and other life sciences topics are developed throughout the text. The

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students should have studied algebra, geometry, and trigonometry, but may be life sciences students because they have not enjoyed their previous mathematics courses.
Algebraic and Discrete

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