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quantum genetics and membrane
excitability.

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collection of papers that covers various investigations in mathematical biology. The text tackles a wide range of topics, from biological equation models up to electrical phenomena in biological systems. The coverage of the text includes existence of a

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periodic solution for a two
predator-one prey ecosystem
modeled on a chemostat;
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fibers; and models of positional
information. The book will be of
great interest to students,

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researchers, and practitioners of
biological sciences.

This book developed from classes in mathematical biology taught by the authors over several years at the Technische Universität München. The main themes are

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modeling principles,
mathematical principles for the
analysis of these models and
model-based analysis of data. The
key topics of modern
biomathematics are covered:
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biochemistry, regulatory

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networks, neuronal networks and population genetics. A variety of mathematical methods are introduced, ranging from ordinary and partial differential equations to stochastic graph theory and branching processes. A special emphasis is placed on the

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interplay between stochastic and deterministic models.

A conference on "Some Mathematical Problems in Biology" was held at the University of Victoria, Victoria, B. C. , Canada, from May 7 - 10,

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1973. The participants and invited speakers were mathematicians interested in problems of a biological nature, and scientists actively engaged in developing mathematical models in biological fields. One aim of the conference was to attempt to

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assess what the recent rapid growth of mathematical interaction with the biosciences has accomplished and may accomplish in the near future. The conference also aimed to expose the problems of communication between

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mathematicians and biological scientists, and in doing so to stimulate the interchange of ideas. It was recognised that the topic spans an enormous breadth, and little attempt was made to balance the very diverse areas. Widespread active interest was

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shown in the conference, and just over one hundred people registered. The varied departments and institutions across North America from which the participants came made it both academically and geographically mixed. The chief

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activity of the conference was the presentation of papers. Nine invited guest speakers (see table of contents) each gave a one hour talk. These covered a wide range of topics. There were twenty-five shorter (twenty minute) contributed papers, and almost

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all papers, were followed by a five minute question and discussion period. Duplicated abstracts of presented papers were available at the meeting. An evening informal discussion meeting of participants, chaired by Dr. A. B. Taylor, and led by Drs. E. M.

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An Introduction to Differential Equations: Volume 2 is a stochastic version of Volume 1 ("An Introduction to Differential Equations: Deterministic Modeling, Methods and Analysis"). Both books have a similar design, but naturally,

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volumes use an innovative style
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