



An Invitation to Biomathematics

Raina Stefanova Robeva, James R. Kirkwood, Robin Lee Davies, Leon Farhy, Boris P. Kovatchev, Martin Straume, Michael L Johnson

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Essential for all biology and biomathematics courses, this textbook provides students with a fresh perspective of quantitative techniques in biology in a field where virtually any advance in the life sciences requires a sophisticated mathematical approach. **An Invitation to Biomathematics**, expertly written by a team of experienced educators, offers students a solid understanding of solving biological problems with mathematical applications. This text succeeds in enabling students to truly experience advancements made in biology through mathematical models by containing computer-based hands-on laboratory projects with emphasis on model development, model validation, and model refinement.

The supplementary work, **Laboratory Manual of Biomathematics** is available separately (ISBN 0123740223, or as a set ISBN: 0123740290)

- * Provides a complete guide for development of quantification skills crucial for applying mathematical methods to biological problems
- * Includes well-known examples from across disciplines in the life sciences including modern biomedical research
- * Explains how to use data sets or dynamical processes to build mathematical models
- * Offers extensive illustrative materials
- * Written in clear and easy-to-follow language without assuming a background in math or biology
- * A laboratory manual is available for hands-on, computer-assisted projects based on material covered in the text

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