



Mathematical Models for Society and Biology

By Edward Beltrami

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Mathematical Modeling for Society and Biology engagingly relates mathematics to compelling real-life problems in biology and contemporary society. It shows how mathematical tools can be used to gain insight into these modern, common problems to provide effective, real solutions.

Beltrami's creative, non-threatening approach draws on a wealth of interesting examples pertaining to current social and biological issues. Central ideas appear again in different contexts throughout the book, showing the general unity of the modeling process. The models are strikingly novel and based on issues of real concern. Most have never appeared in book form. Through the relevance of these models mathematics becomes not just figures and numbers, but a means to a more refined understanding of the world.

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Editorial Review

Review

Reviews

"One has here a wealth of interesting applications -- selected to motivate the large group of readers outside engineering and the physical sciences who can benefit from mathematical modeling but are seldom shown how it can be useful for their own areas."

- Thomas Seidman, University of Maryland

"This is a delightful collection of essays that take the reader from the specific application to the more general mathematical methods...I enjoyed reading the author's style that draws the reader into the subject and motivates the mathematical methods that follow."

- Daniel Zelterman, Yale University

"This is one of the best texts I have seen for undergraduate modeling courses. It is less formal and much more engaged than most in real questions from the very start. Yet the material is accessible and does not require an excessive amount of background."

-Bruce N. Lundberg, University of Southern Colorado

From the Back Cover

This uniquely captivating can/should we really call a math book uniquely captivating? BookMathematical Modeling for Society and Biology engagingly relates mathematics to compellingengaging real-life problems in biology and contemporary society. It , and. It shows how mathematical tools can be used to gain insight into these modern, common problems and to provide effective, real solutions.

Beltrami's Beltrami's covers the material in a creative, non-threatening fashion approach ? Style?, using usesdraws on a wealth of interesting examples pertaining to current social and biological issues. Central ideas appear again in new (how so? New compared to other books, or the world at large? Maybe, "contemporary" or "modern"?) different contexts throughout the book, showing the general unity of the modeling process. The models are strikingly novel and based on issues of real concern., mMost of which have not never appeared elsewhere in book form. They are based on issues of real concern and through Through the relevance of these models to real life, the mathematics becomes not just figures and numbers, but the a means to a a more refined understanding of the world.

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