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Exemplar Problems

CLASS VI

14 Examples of Life Science

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Calculus for the Life Sciences: A Modeling Approach James L. Cornette, Ralph A. Ackerman, 2019-05-25 Calculus for the Life Sciences is an entire reimaging of the standard calculus sequence with the needs of life science students as the fundamental organizing principle. Those needs according to the National Academy of Science include the mathematical concepts of change modeling equilibria and stability structure of a system interactions among components data and measurement visualization and algorithms. This book addresses in a deep and significant way every concept on that list. The book begins with a primer on modeling in the biological realm and biological modeling is the theme and frame for the entire book. The authors build models of bacterial growth light penetration through a column of water and dynamics of a colony of mold in the first few pages. In each case there is actual data that needs fitting. In the case of the mold colony that data is a set of photographs of the colony growing on a ruled sheet of graph paper and the students need to make their own approximations. Fundamental questions about the nature of mathematical modeling trying to approximate a real world phenomenon with an equation are all laid out for the students to wrestle with. The authors have produced a beautifully written introduction to the uses of mathematics in the life sciences. The exposition is crystalline the problems are overwhelmingly from biology and interesting and rich and the emphasis on modeling is pervasive. An instructor's manual for this title is available electronically to those instructors who have adopted the textbook for classroom use. Please send email to textbooks.ams.org for more information. Online question content and interactive step by step tutorials are available for this title in WebAssign. WebAssign is a leading provider of online instructional tools for both faculty and students.

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