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It is a calculus text, written so that a math professor without a biology background can

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For freshman-level, two-semester or three-semester courses in Calculus for Life Sciences. Shows students how calculus is used to analyze phenomena in nature – while providing flexibility for instructors to teach at their desired level of rigor. Calculus for Biology and Medicine motivates life and health science majors to learn calculus through relevant and strategically placed applications to their chosen fields. It presents the calculus in such a way that the level of rigor can be adjusted to meet the specific needs of the audience – from a purely applied course to one that matches the rigor of the standard calculus track. In the 4th Edition, new co-author Marcus Roper (UCLA) partners with author Claudia Neuhauser



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For a two-semester course in Calculus for Life Sciences. The first calculus text that

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adequately addresses the special needs of students in the biological sciences, this volume teaches calculus in the biology context without compromising the level of regular calculus. It is essentially a calculus text, written so that a math professor without a biology background can teach from it successfully. The material is organized in the standard way and explains how the different concepts 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 additional biological examples. This allows students to first see why a certain concept is important, then lets them focus on how to use the concepts without getting distracted by applications, and then, once students feel more comfortable with the concepts, it revisits the biological applications to make sure that they can apply the concepts. The text features exceptionally detailed, step-by-step, worked-out examples and a variety of problems, including an unusually large number of word problems in a biological context.

Biology majors and pre-health students at many colleges and universities are required to take a semester of calculus but rarely do such students see authentic applications of its techniques and concepts. Applications of Calculus to Biology and Medicine: Case

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Studies from Lake Victoria is designed to address this issue: it prepares students to engage with the research literature in the mathematical modeling of biological systems, assuming they have had only one semester of calculus. The text includes projects, problems and exercises: the projects ask the students to engage with the research literature, problems ask the students to extend their understanding of the materials and exercises ask the students to check their understanding as they read the text. Students who successfully work their way through the text will be able to engage in a meaningful way with the research literature to the point that they would be able to make genuine contributions to the literature. Request Inspection Copy Contents: Background: Lake Victoria What is Calculus? Population Modeling: Introduction to Population Modeling Logistic Growth Harvesting a Population with Logistic Growth Euler's Method Modeling Interlude: The Modeling Process Research Interlude: Reading a Research Paper Brief Introduction to Sage Projects for Population Modeling Drug Modeling: Introduction to Pharmacokinetics Two Models for Lead in the Body Methods of Drug Administration Euler's Method for Systems of Differential Equations Modeling Interlude: Sensitivity Analysis Research Interlude: Writing a Research Paper Projects for Pharmacokinetic Modeling Predator Prey Modeling: Undamped Lotka-Volterra Equations Damped Lotka-Volterra

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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 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 and showing how to apply the results to medical and health science, and at the

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same time highlighting modeling strategies. The book will be useful to graduate level students, educators and researchers interested in mathematics and medical science.

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The book addresses the compelling demand for quantitative training in plant biology, including comparisons of the rate of processes, the size of structures and interactions among different processes, approached at different levels from molecules to the environment. Attention is paid to aspects of modern molecular biology and to modern biophysical treatments of classical transport and circulatory problems. This will allow the reader to become familiar with calculus as a tool to understand plant science. The book discusses specific problems covering six specific topics, and includes an additional section devoted to miscellaneous issues. It is also complemented by appendices describing units, conversion factors, formulae and data relevant to plant biology and to the relationship of plants with the environment.

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 biological sciences by showing them how to use calculus to analyze natural phenomena-without compromising the rigorous presentation of the mathematics. While the table of contents aligns well with a

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traditional calculus text, all the concepts are presented through biological and medical applications. The text provides students with the knowledge and 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 were chosen so that no formal training in biology is needed.

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