

The background of the book cover is a detailed photograph of a forest stream. In the upper half, a small waterfall cascades over mossy rocks. The water flows into a pool in the foreground, where numerous ripples and reflections are visible. The surrounding forest floor is covered with fallen leaves in shades of red, orange, and brown. Several large, moss-covered logs lie on the right side of the stream. The overall atmosphere is serene and natural.

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Applications Of Calculus To Biology And Medicine: Case Studies From Lake Victoria Nathan Ryan, Dorothy I Wallace, 2017-08-17 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 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

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