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This classic text has been used in over 20 countries by advanced undergraduate and beginning graduate students in biophysics, physiology, medical physics, neuroscience, and biomedical engineering. It bridges the gap between an introductory physics course and the application of physics to the life and biomedical sciences. Extensively revised and updated, the fifth edition incorporates new developments at the interface between physics and biomedicine. New coverage includes cyclotrons, photodynamic therapy, color vision, x-ray crystallography, the electron microscope, cochlear implants, deep brain stimulation, nanomedicine, and other topics highlighted in the National Research Council report BIO2010. As with the previous edition, the first half of the text is primarily biological physics, emphasizing the use of ideas from physics to understand biology and physiology, and the second half is primarily medical physics, describing the use of physics in medicine for diagnosis (mainly imaging) and therapy. Prior courses in physics and in calculus are assumed. Intermediate Physics for Medicine and Biology is also ideal for self study and as a reference for workers in medical and biological research. Over 850 problems test and enhance the student's understanding and provide additional biological examples. A solutions manual is available to instructors. Each chapter has an extensive list of references.

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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. Request Inspection Copy Contents: Background:Lake VictoriaWhat is Calculus?Population Modeling:Introduction to Population ModelingLogistic GrowthHarvesting a Population with Logistic GrowthEuler's MethodModeling Interlude: The Modeling ProcessResearch Interlude: Reading a Research PaperBrief Introduction to SageProjects for Population ModelingDrug Modeling:Introduction to PharmacokineticsTwo Models for Lead in the BodyMethods of Drug AdministrationEuler's Method for Systems of Differential EquationsModeling Interlude: Sensitivity AnalysisResearch Interlude: Writing a Research PaperProjects for Pharmacokinetic ModelingPredator Prey Modeling:Undamped Lotka-Volterra EquationsDamped Lotka-Volterra EquationsPredator SatiationIsoclinesSpecies FormationTop PredatorsModeling Interlude: Potential Problems with ModelsResearch Interlude: Making FiguresProjects

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