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Physics | University of Oxford

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"University Physics for the Life Sciences has been written in response to the growing call for an introductory physics course explicitly designed for the needs and interests of life science students anticipating a career in biology, medicine, or a health-related field"--

Authors Philip R. Kesten and David L. Tauck take a fresh and innovative approach to the university physics (calculus-based) course. They combine their experience teaching physics (Kesten) and biology (Tauck) to create a text that engages students by using biological and medical applications and examples to illustrate key concepts. University Physics for the Physical and Life Sciences teaches the fundamentals of introductory physics, while weaving in formative physiology, biomedical, and life science topics to help students connect physics to living systems. The authors help life science and pre-med students develop a deeper appreciation for why physics is important to their future work and daily lives. With its thorough coverage of concepts and problem-solving strategies, University Physics for the Physical and Life Sciences can also be used as a novel approach to teaching physics to engineers and scientists or for a more rigorous approach to teaching the college physics (algebra-based) course. University Physics for the Physical and Life Sciences utilizes six key features to help students learn the principle concepts of university physics: • A seamless blend of physics and physiology with interesting examples of physics in students' lives, • A strong focus on developing problem-solving skills (Set Up, Solve, and Reflect problem-solving strategy), • Conceptual questions (Got the Concept) built into the flow of the text, • "Estimate It!" problems that allow students to practice important estimation skills • Special attention to common misconceptions that often plague students, and • Detailed artwork designed to promote visual

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Each chapter has three types of learning aides for students: open-ended questions, multiple-choice questions, and quantitative problems. There is an average of about 50 per chapter. There are also a number of worked examples in the chapters, averaging over 5 per chapter, and almost 600 photos and line drawings.

Authors Philip R. Kesten and David L. Tauck take a fresh and innovative approach to the university physics (calculus-based) course. They combine their experience teaching physics (Kesten) and biology (Tauck) to create a text that engages students by using biological and medical applications and examples to illustrate key concepts. University Physics for the Physical and Life Sciences teaches the fundamentals of introductory physics, while weaving in formative physiology, biomedical, and life science topics to help students connect physics to living systems. The authors help life science and pre-med students develop a deeper appreciation for why physics is important to their future work and daily lives. With its thorough coverage of concepts and problem-solving strategies, University Physics for the Physical and Life Sciences can also be used as a novel approach to teaching physics to engineers and scientists or for a more rigorous approach to teaching the college physics (algebra-based) course. University Physics for the Physical and Life Sciences utilizes six key features to help students learn the principle concepts of university physics: • A seamless blend of physics and

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University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed

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and vetted with feedback from science educators dedicated to the project. VOLUME I Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

This text blends traditional introductory physics topics with an emphasis on human applications and an expanded coverage of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

The Physics of Life explores the roots of the big question by examining the deepest urges and properties of living things, both animate and inanimate: how to live longer, with food, warmth, power, movement and free access to other people and surroundings. Bejan explores controversial and relevant issues such as sustainability, water and food supply, fuel, and economy, to critique the state in which the world understands positions of power and freedom. Breaking down concepts such as desire and power, sports health and culture, the state of economy, water and energy, politics and distribution, Bejan uses the language of physics to

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explain how each system works in order to clarify the meaning of evolution in its broadest scientific sense, moving the reader towards a better understanding of the world's systems and the natural evolution of cultural and political development. The Physics of Life argues that the evolution phenomenon is much broader and older than the evolutionary designs that constitute the biosphere, empowering readers with a new view of the globe and the future, revealing that the urge to have better ideas has the same physical effect as the urge to have better laws and better government. This is evolution explained loudly but also elegantly, forging a path that flows sustainability.

A thoroughly updated and extended new edition of this well-regarded introduction to the basic concepts of biological physics for students in the health and life sciences. Designed to provide a solid foundation in physics for students following health science courses, the text is divided into six sections: Mechanics, Solids and Fluids, Thermodynamics, Electricity and DC Circuits, Optics, and Radiation and Health. Filled with illustrative examples, Introduction to Biological Physics for the Health and Life Sciences, Second Edition features a wealth of concepts, diagrams, ideas and challenges, carefully selected to reference the biomedical sciences. Resources within the text include interspersed problems, objectives to guide learning, and descriptions of key concepts and equations, as well as further practice problems. **NEW CHAPTERS INCLUDE:** Optical Instruments Advanced Geometric Optics Thermodynamic Processes Heat Engines and Entropy Thermodynamic Potentials This comprehensive text offers an important resource for health and life science majors with little background in mathematics or physics. It is also an excellent reference for anyone wishing to gain a broad

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background in the subject. Topics covered include: Kinematics Force and Newton's Laws of Motion Energy Waves Sound and Hearing Elasticity Fluid Dynamics Temperature and the Zeroth Law Ideal Gases Phase and Temperature Change Water Vapour Thermodynamics and the Body Static Electricity Electric Force and Field Capacitance Direct Currents and DC Circuits The Eye and Vision Optical Instruments Atoms and Atomic Physics The Nucleus and Nuclear Physics Ionising Radiation Medical imaging Magnetism and MRI Instructor's support material available through companion website, www.wiley.com/go/biological_physics

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