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"Physics for the Life Sciences" reveals the beauty of physics while highlighting its essential role in the Life Sciences. This book is the result of a rather straightforward idea: to offer Life Sciences students a 'Physics for the Life Sciences' course and a textbook that focuses on the applications and relevance of physics in the life sciences.

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Introduction to Biological Physics for the Health and Life ...
Physics for the Life Sciences, Third Edition, brings the beauty of physics to life. Physics represents an enormous body of knowledge and methodology, and almost all of it has a huge impact on understanding the life sciences.

Physics for the Life Sciences: Zinke-Allmang, Martin ...
"Physics for the Life Sciences" reveals the beauty of physics while highlighting its essential role in the Life Sciences. This book is the result of a rather straightforward idea: to offer Life Sciences students a 'Physics for the Life Sciences' course and a textbook that focuses on the applications and relevance of physics in the life sciences.

The purpose of the book is to give a survey of the physics that is relevant for biological applications, and also to discuss what kind of biology needs physics. The book gives a broad account of basic physics, relevant for the applications and various applications from properties of proteins to processes in the cell to wider themes such as the brain, the origin of life and evolution. It also considers general questions of common interest such as reductionism, determinism and randomness, where the physics view often is misunderstood. The subtle balance between order and disorder is a repeated theme appearing in many contexts. There are descriptive parts which shall be sufficient for the comprehension of general ideas, and more detailed, formalistic parts for those who want to go deeper, and see the ideas expressed in terms of mathematical formulas. - Describes how physics is needed for understanding basic principles of biology - Discusses the delicate balance between order and disorder in living systems - Explores how physics play a role high biological functions, such as learning and thinking

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.

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 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.

An empowering new view of the nature of physics and the constant evolution of our physical and social world

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"--

Can you really lose weight by consuming nothing but ice cream and beer? How does the latest blockbuster movie get squeezed onto a disk, and how do they make the pictures seem 3D? How much does a selfie weigh? What's the science behind forensic investigations, body scans, and the dating of ancient artefacts? The Physics Behind... takes the reader on a fascinating journey through the scientific principles that that make the modern world work. Could there be life on Mars? Why is north really south? How do self-driving cars find their way around? These and many more topics are explored by starting with the basic science that makes them tick - examining the physics behind them. Packed with detailed original artwork and infographics, The Physics Behind... is perfect for anyone who has ever been curious about the science of life. Including: - The physics behind modern life: Wi-Fi, Facial recognition, touchscreens, microwave ovens, the ice cream and beer diet, taking a selfie, Flash memory, a bag of sugar, catching the train, calendars and clocks - The physics behind entertainment: optical discs, lasers, white water, executive toys, the electric guitar, music, 3D movies - The physics behind analysis: medical imaging, looking at little things, spectroscopy, crime scene investigation, tricopter, microfluidics, radiocarbon dating, proving the Earth is round - The physics behind space: rocket science, space weather, Planet Nine, space telescopes, is there anybody out there? life on Earth, life on Mars - The physics behind big science: what's the matter?, time travel, bomb or meltdown?, the Large Hadron Collider, the Human Genome Project, the Standard Model, gravity, everything - The physics behind the weird universe: strings, rings and other things, N-dimensional space, the hypercube, antimatter, the dark universe, quantum weirdness, quantum biology, time crystals and Majorana - The physics behind the environment: weather forecasts, climate change, renewable energy, migration, peacock feathers, sunburn, rainbows, spider silk - The physics behind transportation: autonomous autos, Hyperloop, Maglev, satellite navigation, motor sport, going reeaallllyyy fast, stealth - The physics behind everything else: curve balls, the Mpemba Effect, why north is really south, perpetual motion and the heat death of the universe, and the physics behind this book.

Reveals how recurring patterns in nature are accounted for by a single governing principle of physics, explaining how all designs in the world from biological life to inanimate systems evolve in a sequence of ever-improving designs that facilitate flow.

Traces the life of a Jewish physicist who had to flee Nazi Germany, codiscovered nuclear fission with Otto Hahn and Fritz Strassmann, but was denied recognition when the work received a Nobel Prize

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