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Farmingdale, where he has taught college physics for the past forty years. He has received numerous awards and national recognition including the Chancellors Award for Excellence in Teaching, and being named to Who's Who Among America's Teachers.

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This is a two-semester algebra-based introductory physics text, that contains over 200 problems graded in levels of difficulty.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer

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science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples

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and exercises to test understanding. Programming tutorials are offered on the book's web site.

The New York Times bestseller that makes scientific subjects both understandable and fun: “Every sentence sparkles with wit and charm.” —Richard Dawkins From the Pulitzer Prize-winning New York Times science journalist and bestselling author of *Woman*, this is a playful, passionate guide to the science all around us (and inside us)—from physics to chemistry, biology, geology, astronomy, and more. Drawing on conversations with hundreds of the world’s top scientists, Natalie Angier creates a thoroughly entertaining guide to scientific literacy. For

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those who want a fuller understanding of some of the great issues of our time, The Canon offers insights on stem cells, bird flu, evolution, and global warming. For students—or parents whose kids ask a lot of questions about how the world works—it brings to life such topics as how the earth was formed, or what electricity is. Also included are clear, fascinating explanations of how to think scientifically and grasp the tricky subject of probability. The Canon is a joyride through the major scientific disciplines that reignites our childhood delight and sense of wonder—and along the way, tells us what is actually happening when our ice cream melts or our coffee gets cold, what our liver cells do when we eat a

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caramel, why the horse is an example of evolution at work, and how we're all really made of stardust.

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.

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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

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useful in later courses and future careers. The organization and pedagogical features were developed 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

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Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

This book is a gentle introduction for all those wishing to learn about modern views of the cosmos. Our universe originated in a great explosion – the big bang. For nearly a century cosmologists have studied the aftermath of this explosion: how the universe expanded and cooled down, and how galaxies were gradually assembled by gravity. The nature of the bang itself has come into focus only relatively

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recently. It is the subject of the theory of cosmic inflation, which was developed in the last few decades and has led to a radically new global view of the universe. Students and other interested readers will find here a non-technical but conceptually rigorous account of modern cosmological ideas - describing what we know, and how we know it. One of the book's central themes is the scientific quest to find answers to the ultimate cosmic questions: Is the universe finite or infinite? Has it existed forever? If not, when and how did it come into being? Will it ever end? The book is based on the undergraduate course taught by Alex Vilenkin at Tufts University. It assumes no prior knowledge of physics or mathematics beyond

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elementary high school math. The necessary physics background is introduced as it is required. Each chapter includes a list of questions and exercises of varying degree of difficulty.

String theory has played a highly influential role in theoretical physics for nearly three decades and has substantially altered our view of the elementary building principles of the Universe. However, the theory remains empirically unconfirmed, and is expected to remain so for the foreseeable future. So why do string theorists have such a strong belief in their theory? This book explores this question, offering a novel insight into the nature of theory

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assessment itself. Dawid approaches the topic from a unique position, having extensive experience in both philosophy and high-energy physics. He argues that string theory is just the most conspicuous example of a number of theories in high-energy physics where non-empirical theory assessment has an important part to play. Aimed at physicists and philosophers of science, the book does not use mathematical formalism and explains most technical terms.

From acclaimed science author Jim Baggot, a lively, provocative, and “intellectually gratifying” critique of modern theoretical physics (The Economist). Where does one draw the line between solid science and

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fairy-tale physics? Jim Baggott argues that there is no observational or experimental evidence for many of the ideas of modern theoretical physics: supersymmetric particles, super strings, the multiverse, the holographic principle, or the anthropic cosmological principle. Unafraid to challenge prominent theorists, Baggott offers engaging portraits of many central figures of modern physics, including Stephen Hawking, Paul Davies, John D. Barrow, Brian Greene, and Leonard Susskind. Informed, comprehensive, and balanced, *Farewell to Reality* discusses the latest ideas about the nature of physical reality while clearly distinguishing between fact and fantasy, providing essential and entertaining reading for everyone

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interested in what we know and don't know about the nature of the universe and reality itself.

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