

Physics For The Life Sciences 2nd Edition Solutions Manual

How Things Work provides an accessible introduction to physics for the non-science student. Like the previous editions it employs everyday objects, with which students are familiar, in case studies to explain the most essential physics concepts of day-to-day life. Lou Bloomfield takes seemingly highly complex devices and strips away the complexity to show how at their heart are simple physics ideas. Once these concepts are understood, they can be used to understand the behavior of many devices encountered in everyday life. The sixth edition uses the power of WileyPLUS Learning Space with Orion to give students the opportunity to actively practice the physics concepts presented in this edition. This text is an unbound, three hole punched version. Access to WileyPLUS sold separately.

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

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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

Semantic Network Analysis in Social Sciences

introduces the fundamentals of semantic network analysis and its applications in the social sciences.

Readers learn how to easily transform any given text into a visual network of words co-occurring together, a process that allows mapping the main themes appearing in the text and revealing its main narratives and biases.

Semantic network analysis is particularly useful today with the increasing volumes of text-based information available. It is one of the developing, cutting-edge methods to organize, identify patterns and structures, and understand the meanings of our information society.

The first chapters in this book offer step-by-step guidelines for conducting semantic network analysis, including choosing and preparing the text, selecting desired words, constructing the networks, and interpreting their meanings. Free software tools and code are also presented. The rest of the book displays state-of-the-art studies from around the world that apply this method to explore news, political speeches, social media content, and even to organize interview transcripts and literature reviews. Aimed at scholars with no previous

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knowledge in the field, this book can be used as a main or a supplementary textbook for general courses on research methods or network analysis courses, as well as a starting point to conduct your own content analysis of large texts.

Data Analytics for the Social Sciences is an introductory, graduate-level treatment of data analytics for social science. It features applications in the R language, arguably the fastest growing and leading statistical tool for researchers. The book starts with an ethics chapter on the uses and potential abuses of data analytics. Chapters 2 and 3 show how to implement a broad range of statistical procedures in R. Chapters 4 and 5 deal with regression and classification trees and with random forests. Chapter 6 deals with machine learning models and the "caret" package, which makes available to the researcher hundreds of models. Chapter 7 deals with neural network analysis, and Chapter 8 deals with network analysis and visualization of network data. A final chapter treats text analysis, including web scraping, comparative word frequency tables, word clouds, word maps, sentiment analysis, topic analysis, and more. All empirical chapters have two "Quick Start" exercises designed to allow quick immersion in chapter topics, followed by "In Depth" coverage. Data are available for all examples and runnable R code is provided in a "Command Summary". An appendix provides an extended tutorial on R and RStudio. Almost 30 online supplements provide information for the complete book, "books within the book" on a variety of topics, such as agent-based modeling. Rather than focusing on

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equations, derivations, and proofs, this book emphasizes hands-on obtaining of output for various social science models and how to interpret the output. It is suitable for all advanced level undergraduate and graduate students learning statistical data analysis.

This book aims to demystify fundamental biophysics for students in the health and biosciences required to study physics and to understand the mechanistic behaviour of biosystems. The text is well supplemented by worked conceptual examples that will constitute the main source for the students, while combining conceptual examples and practice problems with more quantitative examples and recent technological advances.

"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"--

The Theatre of Nuclear Science theoretically explores theatrical representations of nuclear science to reconsider a science that can have consequences beyond imagination. Focusing on a series of nuclear science plays that span the twentieth and twenty-first centuries, and including performances of nuclear science in museums, film, and media, Jeanne Tiehen argues why theatre and its unique qualities can offer important perspectives on this imperative topic. This book will be of great interest to students and scholars of theatre, politics, and literature.

In this book, physics in its many aspects (thermodynamics, mechanics, electricity, fluid dynamics) is the guiding light on a

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fascinating journey through biological systems, providing ideas, examples and stimulating reflections for undergraduate physics, chemistry and life-science students, as well as for anyone interested in the frontiers between physics and biology. Rather than introducing a lot of new information, it encourages young students to use their recently acquired knowledge to start seeing the physics behind the biology. As an undergraduate textbook in introductory biophysics, it includes the necessary background and tools, including exercises and appendices, to form a progressive course. In this case, the chapters can be used in the order proposed, possibly split between two semesters. The book is also an absorbing read for researchers in the life sciences who wish to refresh or go deeper into the physics concepts gleaned in their early years of scientific training. Less physics-oriented readers might want to skip the first chapter, as well as all the "gray boxes" containing the more formal developments, and create their own à-la-carte menu of chapters.

This book provides undergraduate life science students taking a general physics class with physics that is directly relevant to the life sciences. It develops the basic concepts of physics in a manner that they can be directly used to explain the 'engineering' of living organisms, from the operation of the skeleton to the interaction between DNA and proteins. Topics such as the physics of statics, elasticity, fluids, and physical chemistry that are rich in life-science applications are emphasized. A clear understanding of this material should provide students with a solid foundation for future biochemistry, molecular biology, and physiology students. It should prepare life science students for tests, such as the MCAT exam.

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,

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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.

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**

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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 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

Physics for Students of Science and Engineering is a calculus-based textbook of introductory physics. The book reviews standards and nomenclature such as units, vectors, and particle kinetics including rectilinear motion, motion in a plane, relative motion. The text also explains particle dynamics, Newton's three laws, weight, mass, and the application of Newton's laws. The text reviews the principle of conservation of energy, the conservative forces (momentum), the nonconservative forces (friction), and the fundamental quantities of momentum (mass and velocity). The book examines changes in momentum known as impulse, as well as the laws in momentum conservation in relation to explosions, collisions, or other interactions within systems involving more than one particle. The book considers the mechanics of fluids, particularly fluid statics, fluid dynamics, the characteristics of fluid flow, and applications of fluid mechanics. The text also reviews the wave-particle duality, the uncertainty principle, the probabilistic interpretation of

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microscopic particles (such as electrons), and quantum theory. The book is an ideal source of reference for students and professors of physics, calculus, or related courses in science or engineering.

This comprehensive and extensively classroom-tested biophysics textbook is a complete introduction to the physical principles underlying biological processes and their applications to the life sciences and medicine. The foundations of natural processes are placed on a firm footing before showing how their consequences can be explored in a wide range of biosystems. The goal is to develop the readers intuition, understanding, and facility for creative analysis that are frequently required to grapple with problems involving complex living organisms. Topics cover all scales, encompassing the application of statics, fluid dynamics, acoustics, electromagnetism, light, radiation physics, thermodynamics, statistical physics, quantum biophysics, and theories of information, ordering, and evolutionary optimization to biological processes and bio-relevant technological implementations. Sound modeling principles are emphasized throughout, placing all the concepts within a rigorous framework. With numerous worked examples and exercises to test and enhance the readers understanding, this book can be used as a textbook for physics graduate students and as a supplementary text for a range of premedical, biomedical, and biophysics courses at the undergraduate and graduate levels. It will also be a useful reference for biologists, physicists, medical researchers, and medical device engineers who want to work from first principles.

Ideal for non-math majors, *Advanced and Multivariate Statistical Methods* teaches students to interpret, present, and write up results for each statistical technique without overemphasizing advanced math. This highly applied

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approach covers the why, what, when and how of advanced and multivariate statistics in a way that is neither too technical nor too mathematical. Students also learn how to compute each technique using SPSS software. New to the Sixth Edition Instructor ancillaries are now available with the sixth edition. All SPSS directions and screenshots have been updated to Version 23 of the software. Student learning objectives have been added as a means for students to target their learning and for instructors to focus their instruction. Key words are reviewed and reinforced in the end of chapter material to ensure that students understand the vocabulary of advanced and multivariate statistics.

This third edition covers topics in physics as they apply to the life sciences, specifically medicine, physiology, nursing and other applied health fields. It includes many figures, examples and illustrative problems and appendices which provide convenient access to the most important concepts of mechanics, electricity, and optics.

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

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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 learning

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Although there are many books available on the preparation, properties, and characterization of nanomaterials, few provide an interdisciplinary account of the physical phenomena that govern the novel properties of nanomaterials. Addressing this shortfall, *Nanoscale Physics for Materials Science*

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covers fundamental cross-disciplinary concepts in materials science and engineering. It presents a comprehensive description of the physical phenomena and changes that can be expected when macroscopically sized materials are reduced to the nanometer level. The text is divided according to physical phenomena and interactions. After reviewing the necessary theoretical background, the authors address the electrical, optical, and magnetic properties as functions of size and distance. They discuss the energy spectrum, the charging effect, tunneling phenomena, electronically induced stable nanostructures, absorption and scattering, electromagnetic interactions, magnetism, ferromagnetic domain-wall-related phenomena, and spin transport in magnetic nanostructures. Problem sets are included at the end of each chapter. Providing an excellent treatment of physical phenomena not covered in similar books, this text explores the electrical, optical, and magnetic properties of materials at the nanoscale level. It delves into the dramatic physical changes that occur on scales where the quantum nature of objects starts dominating their properties. This updated and expanded version of the second edition explains the physical principles underlying the behaviour of glaciers and ice sheets. The text has been revised in order to keep pace with the extensive developments which have occurred since

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1981. A new chapter, of major interest, concentrates on the deformation of subglacial till. The book concludes with a chapter on information regarding past climate and atmospheric composition obtainable from ice cores.

An introduction to the fundamental physical principles related to the study of biological phenomena, structured around relevant biological examples.

Produced for unit SEP122 (Physics for the life sciences) offered by the Faculty of Science and Technology's School of Engineering and Technology in Deakin University's Open Campus Program.

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.

This book collects contributions to the XXIII international conference "Nonlinear dynamics of electronic systems". Topics range from non-linearity in electronic circuits to synchronisation effects in complex networks to biological systems, neural dynamics and the complex organisation of the brain. Resting on a solid mathematical basis, these investigations address highly interdisciplinary problems in physics, engineering, biology and

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biochemistry.

The development of science, technology and industry in the near future requires new materials and devices, which will differ in many aspects from that of past years. This is due to the fact that many sophisticated processes and new materials are being invented. The computer engineering field is a typical example. The main building block for these achievements is science, and leading it is physics, which provides the foundation for the chemical, biological and atomic industries. Physics for Chemists contains many instructive examples complete with detailed analysis and tutorials to evaluate the student's level of understanding. Specifically it is focused to give a robust and relevant background to chemistry students and to eliminate those aspects of physics which are not relevant to these students. This book is aimed at chemistry students and researches who would by using the book, not only be able to perform relevant physical experiments, but would then also be in a position to provide a well founded explanation of the results. * Fundamental principles of modern physics are explained in parallel with their applications to chemistry and technology * Large number of practical examples and tasks * Presentation of new aspects of chemical science and technology e.g. nanotechnology and synthesis of new magnetic materials

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Imagine, if you can, the world in the year 2100. In *Physics of the Future*, Michio Kaku—the New York Times bestselling author of *Physics of the Impossible*—gives us a stunning, provocative, and exhilarating vision of the coming century based on interviews with over three hundred of the world's top scientists who are already inventing the future in their labs. The result is the most authoritative and scientifically accurate description of the revolutionary developments taking place in medicine, computers, artificial intelligence, nanotechnology, energy production, and astronautics. In all likelihood, by 2100 we will control computers via tiny brain sensors and, like magicians, move objects around with the power of our minds. Artificial intelligence will be dispersed throughout the environment, and Internet-enabled contact lenses will allow us to access the world's information base or conjure up any image we desire in the blink of an eye. Meanwhile, cars will drive themselves using GPS, and if room-temperature superconductors are discovered, vehicles will effortlessly fly on a cushion of air, coasting on powerful magnetic fields and ushering in the age of magnetism. Using molecular medicine, scientists will be able to grow almost every organ of the body and cure genetic diseases. Millions of tiny DNA sensors and nanoparticles patrolling our blood cells will silently scan our bodies for the first sign of illness, while rapid advances in genetic research will

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enable us to slow down or maybe even reverse the aging process, allowing human life spans to increase dramatically. In space, radically new ships—needle-sized vessels using laser propulsion—could replace the expensive chemical rockets of today and perhaps visit nearby stars. Advances in nanotechnology may lead to the fabled space elevator, which would propel humans hundreds of miles above the earth's atmosphere at the push of a button. But these astonishing revelations are only the tip of the iceberg. Kaku also discusses emotional robots, antimatter rockets, X-ray vision, and the ability to create new life-forms, and he considers the development of the world economy. He addresses the key questions: Who are the winner and losers of the future? Who will have jobs, and which nations will prosper? All the while, Kaku illuminates the rigorous scientific principles, examining the rate at which certain technologies are likely to mature, how far they can advance, and what their ultimate limitations and hazards are. Synthesizing a vast amount of information to construct an exciting look at the years leading up to 2100, *Physics of the Future* is a thrilling, wondrous ride through the next 100 years of breathtaking scientific revolution.

Everyone remembers their favorite teacher, but why? What makes some teachers so memorable? Julie Schmidt Hasson spent a year interviewing people about teachers who've shaped their lives,

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and the result is this captivating book. She shares stories that are both inspirational, highlighting the ways a teacher's actions can make a lasting impact, and also informational, providing models to help teachers make a more consistent impact on the students they serve. Chapters cover topics such as commitment, vulnerability, power, connection, expectations, community, identity, and equity, while underscoring the importance of making students feel safe, seen, and stretched. In each chapter, the author brings you along as she conducts interviews and hears emotional stories. She also offers practical takeaways and applications for educators of all levels of experience. With this uplifting book, you will be reminded that your seemingly ordinary interactions in the classroom have extraordinary implications, and that you indeed have the power to influence students' lives – each and every day.

How did life start? Is the evolution of life describable by any physics-like laws? Stuart Kauffman's latest book offers an explanation-beyond what the laws of physics can explain-of the progression from a complex chemical environment to molecular reproduction, metabolism and to early protocells, and further evolution to what we recognize as life. Among the estimated one hundred billion solar systems in the known universe, evolving life is surely abundant. That evolution is a process of "becoming" in each case. Since Newton, we have turned to

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physics to assess reality. But physics alone cannot tell us where we came from, how we arrived, and why our world has evolved past the point of unicellular organisms to an extremely complex biosphere. Building on concepts from his work as a complex systems researcher at the Santa Fe Institute, Kauffman focuses in particular on the idea of cells constructing themselves and introduces concepts such as "constraint closure." Living systems are defined by the concept of "organization" which has not been focused on in enough in previous works. Cells are autopoietic systems that build themselves: they literally construct their own constraints on the release of energy into a few degrees of freedom that constitutes the very thermodynamic work by which they build their own self creating constraints. Living cells are "machines" that construct and assemble their own working parts. The emergence of such systems-the origin of life problem-was probably a spontaneous phase transition to self-reproduction in complex enough prebiotic systems. The resulting protocells were capable of Darwin's heritable variation, hence opened evolution by natural selection. Evolution propagates this burgeoning organization. Evolving living creatures, by existing, create new niches into which yet further new creatures can emerge. If life is abundant in the universe, this self-constructing, propagating, exploding diversity takes us beyond

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physics to biospheres everywhere.

Teleportation, time machines, force fields, and interstellar space ships—the stuff of science fiction or potentially attainable future technologies? Inspired by the fantastic worlds of Star Trek, Star Wars, and Back to the Future, renowned theoretical physicist and bestselling author Michio Kaku takes an informed, serious, and often surprising look at what our current understanding of the universe's physical laws may permit in the near and distant future. Entertaining, informative, and imaginative, *Physics of the Impossible* probes the very limits of human ingenuity and scientific possibility.

Physics of Biological Action and Perception helps researchers interested in exploring biological motor control from a physics or alternative viewpoint perspective. The book introduces the idea of parametric control as a distinguishing feature of living systems. Sections cover how the CNS creates stable percepts based on fuzzy and continuously changing signals from numerous receptors and the variable processes related to ongoing actions. The author also develops the idea of control with referent coordinates to stability of salient variables in fields typically united under the label of "cognition."

Examples of this include communication (how the gist of a message is preserved despite variability of phrases), thought processes (how one can solve a mental problem via different logical routes), and

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playing chess (how one selects an optimal move given a position on the board). The book is written for researchers, instructors, clinicians and other professionals in all the fields related to biological movement and perception. Presents a unifying theory of motor control based on physics Encompasses action, perception and cognition Discusses referent coordinates, kinesthetic perception and stability of actions Identifies the importance of the CNS over computational brain function

Divided into six parts, the two volumes in this set cover the basics of chemistry, physics, life sciences, earth sciences, astronomy, and the history of science.

A compilation of previously unpublished lectures delivered at the International Centre for Theoretical Physics by the pioneers and creators of modern physics --Bethe, Dirac, Heisenberg, Wigner, Klein and Landau (the sixth delivered by E Lifshitz). By sharing with us their own lives of physics, these outstanding physicists convey the sense of total dedication, the pleasure and elegance of scientific creation at its peak. Readers would acquire a deeper sense of the scope and nature of physics, and the insights of its fascinating diverse disciplines as the developments of modern physics are being unfolded through history. Contents:Foreword: Twenty-One Years After (Abdus Salam)Energy on Earth and in the Stars (H A Bethe)Methods in Theoretical Physics (P A M Dirac)Theory, Criticism and a Philosophy (W Heisenberg)The Scientist and Society (E P

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Wigner)From My Life of Physics (O Klein)Landau-Great Scientist and Teacher (tribute by E M Lifshitz)

Readership: Physicists.

Nanohertz Gravitational Wave Astronomy explores the exciting hunt for low frequency gravitational waves by using the extraordinary timing precision of pulsars. The book takes the reader on a tour across the expansive gravitational-wave landscape, from LIGO detections to the search for polarization patterns in the Cosmic Microwave Background, then hones in on the band of nanohertz frequencies that Pulsar Timing Arrays (PTAs) are sensitive to. Within this band may lie many pairs of the most massive black holes in the entire Universe, all radiating in chorus to produce a background of gravitational waves. The book shows how such extra-Galactic gravitational waves can alter the arrival times of radio pulses emanating from monitored Galactic pulsars, and how we can use the pattern of correlated timing deviations from many pulsars to tease out the elusive signal. The book takes a pragmatic approach to data analysis, explaining how it is performed in practice within classical and Bayesian statistics, as well as the numerous strategies one can use to optimize numerical Bayesian searches in PTA analyses. It closes with a complete discussion of the data model for nanohertz gravitational wave searches, and an overview of the past achievements, present efforts, and future prospects for PTAs. The book is accessible to upper division undergraduate students and graduate students of astronomy, and also serves as a useful desk reference for experts in the field. Key features: Contains a

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complete derivation of the pulsar timing response to gravitational waves, and the overlap reduction function for PTAs. Presents a comprehensive overview of source astrophysics, and the dynamical influences that shape the gravitational wave signals that PTAs are sensitive to. Serves as a detailed primer on gravitational-wave data analysis and numerical Bayesian techniques for PTAs.

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