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Oscillations and Waves May 07 2020

Visual Guide to Elliott Wave Trading Feb 13 2021

The Visual Guide to Elliott Wave Trading is an in-depth, easy-to-use guide to trading the financial markets with the Elliott Wave Principle. In many ways this book picks up where Frost & Prechter's classic Elliott Wave Principle: Key to Market Behavior left off, which makes it "required reading" if you want to build a solid foundation in Elliott wave analysis. Co-authored by two of Elliott Wave International's most trusted analysts -- Wayne Gorman and Jeffrey Kennedy -- their trading insights offer a perfect blend of traditional textbook and real-world application. Join Kennedy and Gorman as they provide step-by-step instruction in how to

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trade with Elliott. They include scores of real market charts that depict the Elliott wave patterns, which will help you measure the strength of trends, forecast market turning points, plus identify trading opportunities. What's more, this illustrated guide also explains how to use supporting technical indicators that can build confidence in your Elliott wave analysis. Gorman and Kennedy know that "simple" does not mean "easy." Their combined expertise will help you build confidence in your analysis, create an effective trading plan, and better manage your trades. Whether your trading style is conservative or aggressive, their charts and techniques can help identify high-confidence opportunities. Each chapter includes key points & smart investor tips, such as how to

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"Prepare yourself to take advantage of opportunities even when your preferred count does not materialize," and "Let the market commit to you before you commit to the market." Elliott wave analysis recognizes that in financial markets, mass psychology swings from pessimism to optimism and back in a natural sequence. Use this book to recognize those wave patterns, and anticipate market moves that most traders never see coming. The Visual Guide to Elliott Wave Trading is the new criterion for any serious technical trader.

OCR (A) AS Physics Unit G482: Electrons, Waves and Photons Student Unit Guide Ebook Jan 27 2022 Student Unit Guides are perfect for revision. Each guide is written by an examiner and explains the unit requirements, summarises the relevant unit content and includes a series of specimen questions and answers.

Wave Dynamics and Radio Probing of the Ocean

Surface Sep 30 2019 In 1960,

Dr. George Deacon of the
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National Institute of Oceanography in England organized a meeting in Easton, Maryland that summarized the state of our understanding at that time of ocean wave statistics and dynamics. It was a pivotal occasion: spectral techniques for wave measurement were beginning to be used, wave-wave interactions had just been discovered, and simple models for the growth of waves by wind were being developed. The meeting laid the foundation for much work that was to follow, but one could hardly have imagined the extent to which new techniques of measurement, particularly by remote sensing, new methods of calculation and computation, and new theoretical and laboratory results would, in the following twenty years, build on this base. When Gaspar Valenzuela of the V. S. Naval Research Laboratory perceived that the time was right for a second such meeting, it was natural that Sir George Deacon would be invited to serve as a hono-

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chairman for the meeting, and the entire waves community was delighted at his acceptance. The present volume contains reviewed and edited papers given at this second meeting, held this time in Miami, Florida, May 13-20, 1981, with the generous support of the Office of Naval Research, the National Aeronautics and Space Administration, and the National Oceanic and Atmospheric Administration.

What Makes an Ocean Wave?

Oct 24 2021 Provides information about various aspects of the world's oceans-- waves, tides, the food chain, marine creatures, coastlines, and more.

Electricity Aug 29 2019

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properties and mechanics of

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title builds on introductory physics and emphasises understanding of vibratory motion and waves based on first principles. It is divided into three parts: Part I contains a preliminary chapter that reviews relevant ideas of mechanics and complex numbers; Part II discusses vibrations of mechanical systems, covering a simple harmonic oscillator, coupled oscillators, normal coordinates, beaded string, continuous string, standing waves, and Fourier series. Part II ends with a presentation of stationary solutions of driven finite systems. Part III is concerned with waves.

Bivectors and Waves in Mechanics and Optics Jan 03 2020 Bivectors occur naturally in the description of elliptically polarized homogeneous and inhomogeneous plane waves. The description of a homogeneous plane wave generally involves a vector (the unit vector along the propagation direction) and a bivector (the complex amplitude of the wave).

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Inhomogeneous plane waves are described in terms of two bivectors - the complex amplitude and the complex slowness. The use of bivectors and their associated ellipses is essential for the presentation of the 'directional ellipse' method given in this book, in deriving all possible inhomogeneous plane wave solutions in a given context. The purpose of this book is to give an extensive treatment of the properties of bivectors and to show how these may be applied to the theory of homogeneous and inhomogeneous plane waves. For each chapter there are exercises with answers, many of which present further useful properties which are referred to afterwards. The material in this book is suitable for senior undergraduate and first year graduate students. It will also prove useful for researchers interested in homogeneous and inhomogeneous plane waves.

*Antennas and Wave
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Antennas and Wave

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first course on the same. The book begins with an introduction that discusses the fundamental concepts, notations, representation and principles that govern the field of antennas. A separate chapter on mathematical preliminaries is discussed followed by chapters on every aspect of antennas from Maxwell's equations to antenna array analysis, antenna array synthesis, antenna measurements and wave propagation.

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index Get to grips with the exam requirements: the specific skills on which you will be tested are explored and explained Analyse exam-style questions: graded student responses will help you focus on areas where you can improve your exam technique and performance

The Widow Wave Jun 07 2020

Will anyone ever know what happened to the Aloha, a sport fishing boat that vanished with all onboard in the Pacific off San Francisco's coast?

'Knowing' is a complex, inexact business. There's real truth and then there's courtroom truth; a jury's verdict may or may not approach what actually happened. Nor can someone reading about such an event—one that had no witnesses or hard evidence to explain it—be sure where the truth lies. But trials, judges, and juries are what we use in our legal system to find truth. The Widow Wave explores this alternate reality. It is a fascinating true-life mystery and lawyer procedural rolled into one. Jay Jacobs

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facile answers—and he's not the flawless protagonist typically starring in such dramas. He lets us see how such a big wrongful death case really unfolds, in a true story that reads like a novel. Will the jury find the truth? Will the reader? "An intelligently told true story of honor, integrity and justice. The Widow Wave reminded me of The Perfect Storm, played out in a taut courtroom thriller. Jay Jacobs masterfully weaves the harrowing tale of the last voyage of the Aloha, and courtroom battle that followed. A great read." — Robert Dugoni, New York Times Bestselling Author of My Sister's Grave "A compelling story of a modern day maritime tragedy that beautifully discusses the vital importance of advances in observational technologies, forecasts and communications in avoiding future loss of life at sea. Jacobs skillfully weaves together the legal, scientific and maritime narratives to enthrall and educate the reader." — Julie Thomas, Scripps Institution of Oceanography, Manager of the Institute of Geo and Planetary Physics

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"Trial lawyer Jay Jacobs, in a unique, personally revealing memoir, defends a widow and her deceased husband's honor in an intimate first person account of how the civil trial process unfolds.... The reader will learn about the strategies, shoals, and embroilments of a real life, vigorously contested trial with its many emotional upheavals." — Justice James Marchiano (ret.), formerly Presiding Justice, California Court of Appeals, First Appellate District "Jacobs' vivid prose pulls you into a compelling drama, deftly transporting you from the courtroom to the storm-tossed Pacific and back to the courtroom again. The book reads like a well-wrought detective novel." — Daniel James Brown, New York Times Bestselling Author of The Boys in the Boat

1990 Census of Population and Housing Oct 12 2020

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many transfers of information, but the function of this transmission channel is poorly understood. This ebook is intended to provide initial answers to the following questions: Why electromagnetic waves have a constant speed? What's the transmission medium of electromagnetic waves?

Seismic Wave Theory Jul 09 2020 Perfect for senior undergraduates and first-year graduate students in geophysics, physics, mathematics, geology and engineering, this book is devoted exclusively to seismic wave theory. The result is an invaluable teaching tool, with its detailed derivations of formulas, clear explanations of topics, exercises along with selected answers, and an additional set of exercises with derived answers on the book's website. Some highlights of the text include: a review of vector calculus and Fourier transforms and an introduction to tensors, which prepare readers for the chapters to come; and a detailed discussion

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on computing reflection and transmission coefficients, a topic of wide interest in the field; a discussion in later chapters of plane waves in anisotropic and anelastic media, which serves as a useful introduction to these two areas of current research in geophysics. Students will learn to understand seismic wave theory through the book's clear and concise pedagogy.

Fundamentals and Applications of Ultrasonic Waves Oct 31 2019

Ultrasonics. A subject with applications across all the basic sciences, engineering, medicine, and oceanography, yet even the broader topic of acoustics is now rarely offered at undergraduate levels. Ultrasonics is addressed primarily at the doctoral level, and texts appropriate for beginning graduate students or newcomers to the field are virtually

Electronic Waves & Transmission Line Circuit Design Feb 02 2020 The book introduces concepts on a wide range of materials and

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several advantages over existing texts, including: 1. The presentation of a series of scientific postulates and laws of RF and microwaves, which lay the foundation for the behavior of waves and their propagation on transmission lines, is unique to this book compared with similar RF and Microwave texts. 2. The presentation of classical laws and principles of electricity and magnetism, all inter-related, conceptually and graphically. 3. There is a shift of emphasis from rigorous mathematical solutions of Maxwell's equations, and instead has been aptly placed on simple yet fundamental concepts that underlie these equations. This shift of emphasis will promote a deeper understanding of the electronics, particularly at RF/Microwave frequencies. 4. Wave propagation in free space and transmission lines has been amply treated from a totally new standpoint. Designing RF/Microwave passive circuits using the Smith Chart as covered in this book becomes a systematic and

yet pleasant task, which can easily be duplicated by any practitioner in the field. 5. New technical terms are precisely defined as they are first introduced, thereby keeping the subject matter in focus and preventing misunderstanding, and 6. Finally the abundant use of graphical illustrations and diagrams brings a great deal of clarity and conceptual understanding, enabling difficult concepts to be understood with ease. The fundamentals of RF and microwave electronics can be mastered visually, through many tested practical examples in the book and in the accompanying CD using Microsoft Excel (R) environment. This book is perfect for RF/microwave newcomers or industry veterans! The material is presented lucidly and effectively through worked practical examples using both clear-cut math and vivid illustrations, which help the reader gain practical knowledge in passive circuit design using the Smith Chart.

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Hydrodynamic Control of Wave Energy Devices Sep 22 2021

With this self-contained and comprehensive text, students and researchers will gain a detailed understanding of the fundamental aspects of the hydrodynamic control of wave energy converters. Such control is necessary to maximise energy capture for a given device configuration and plays a major role in efforts to make wave energy economic. Covering a wide range of disciplines, the reader is taken from the mathematical and technical fundamentals, through the main pillars of wave energy hydrodynamic

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control, right through to state-of-the-art algorithms for hydrodynamic control. The various operating principles of wave energy converters are exposed and the unique aspects of the hydrodynamic control problem highlighted, with a variety of potential solutions discussed. Supporting material on wave forecasting and the interaction of the hydrodynamic control problem with other aspects of wave energy device optimisation, such as device geometry optimisation and optimal device array layout, is also provided.

NSW Physics Apr 29 2022

The Third Wave Apr 17 2021

From the author of Future Shock, a striking way out of today's despair . . . a bracing, optimistic look at our new potentials. The Third Wave makes startling sense of the violent changes now battering our world. Its sweeping synthesis casts fresh light on our new forms of marriage and family, on today's dramatic changes in business and economics. It explains

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of cults, the new definitions of work, play, love, and success. It points toward new forms of twenty-first-century democracy. Praise for *The Third Wave* “Magnificent . . . an astonishing array of information.”—The Washington Post “Imperishably fresh.”—Business Week “Will mesmerize readers, and rightly so.”—Vogue “Alvin Toffler . . . has written another blockbuster . . . a powerful book.”—The Guardian “Fresh ideas, clearly explained. . . . Toffler has proven again that he is a master.”—United Press International “Toffler has imagination and an ability to think of various future possibilities by transcending prevailing values, assumptions and myths.”—Associated Press “Once you have walked into his version of the future, you may decide never again to whitewash some of the built-in frailties of the real present.”—Financial Post “Rich, stimulating and basically optimistic . . . will unquestionably aid many to a greater understanding of

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[today’s] puzzling social changes.”—The Globe & Mail “A detailed breathtakingly bold projection of the social changes required if we are to survive. . . . Toffler’s vision of a democratic, self-sustaining utopia is a brave alternative to recent grim warnings.”—Cosmopolitan [Dynamic Fields and Waves](#) Oct 04 2022 This book explores the use of waves on strings and sound waves to illustrate the behaviour of waves. It shows how Albert Einstein overturned Newtonian physics and predicted startling new effects such as time dilation and length contraction for objects travelling at close to the speed of light.

The Social Wave Mar 05 2020 Don’t Sink in the Sea of Social Media—Succeed Presenting a big-picture look beyond status updates, daily tweets, and weekly posts, social media strategist Starr Hall empowers you to break out of your social media comfort zone and start making waves. Includes: • Industry specific strategies including top 5 tips

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Entrepreneur, Philanthropist Coached by Starr, learn how to stay on top of the rising swell of social media, ride today's social media wave, and prepare to catch the next big one.

Contemporary Ideas on Ship Stability and Capsizing in Waves

Jun 27 2019 During the last decade significant progress has been made in the field of ship stability. Yet in spite of the progress made, numerous scientific and practical challenges still exist with regard to the accurate prediction of extreme motion and capsize dynamics for intact and damaged vessels, the probabilistic nature of extreme events, criteria that properly reflect the physics and operational safety of an intact or damaged vessel, and ways to provide relevant information on safe ship handling to ship operators. This book provides a comprehensive review of the above issues through the selection of representative papers presented at the unique series of international workshops and conferences on ship stability held between

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2000 and 2009. The editorial committee has selected papers for this book from the following events: STAB 2000 Conference (Launceston, Tasmania), 5th Stability Workshop (Trieste, 2001), 6th Stability Workshop (Long Island, 2002), STAB 2003 Conference (Madrid), 7th Stability Workshop (Shanghai, 2004), 8th Stability Workshop (Istanbul, 2005), STAB 2006 Conference (Rio de Janeiro), 9th Stability Workshop (Hamburg, 2007), 10th Stability Workshop (Daejeon, 2008), and STAB 2009 Conference (St. Petersburg). The papers have been clustered around the following themes: Stability Criteria, Stability of the Intact Ship, Parametric Rolling, Broaching, Nonlinear Dynamics, Roll Damping, Probabilistic Assessment of Ship Capsize, Environmental Modelling, Damaged Ship Stability, CFD Applications, Design for Safety, Naval Vessels, and Accident Investigations.

Slowly Varying Oscillations And Waves: From Basics To

Modernity Jan 15 2021 The
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beauty of the theoretical science is that quite different physical, biological, etc. phenomena can often be described as similar mathematical objects, by similar differential (or other) equations. In the 20th century, the notion of 'theory of oscillations' and later 'theory of waves' as unifying concepts, meaning the application of similar methods and equations to quite different physical problems, came into being. In the variety of applications (quite possibly in most of them), the oscillatory process is characterized by a slow (as compared with the characteristic period) variation of its parameters, such as the amplitude and frequency. The same is true for the wave processes. This book describes a variety of problems associated with oscillations and waves with slowly varying parameters. Among them the nonlinear and parametric resonances, self-synchronization, attenuated and amplified solitons, self-focusing and self-modulation.

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and reaction-diffusion systems. For oscillators, the physical examples include the van der Pol oscillator and a pendulum, models of a laser. For waves, examples are taken from oceanography, nonlinear optics, acoustics, and biophysics. The last chapter of the book describes more formal asymptotic perturbation schemes for the classes of oscillators and waves considered in all preceding chapters.

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Waves And Rays In Seismology: Answers To Unasked Questions (Second Edition)

Sep 03 2022 The author dedicates this book to readers who are concerned with finding out the status of concepts, statements and hypotheses, and with clarifying and rearranging them in a logical order. It is thus not intended to teach tools and techniques of the trade, but to discuss the foundations on which seismology -- and in a larger sense, the theory of wave propagation in solids -- is built. A key question is: why and to what degree can a theory developed for an elastic continuum be used to

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investigate the propagation of waves in the Earth, which is neither a continuum nor fully elastic. But the scrutiny of the foundations goes much deeper: material symmetry, effective tensors, equivalent media; the influence (or, rather, the lack thereof) of gravitational and thermal effects and the rotation of the Earth, are discussed ab initio. The variational principles of Fermat and Hamilton and their consequences for the propagation of elastic waves, causality, Noether's theorem and its consequences on conservation of energy and conservation of linear momentum are but a few topics that are investigated in the process to establish seismology as a science and to investigate its relation to subjects like realism and empiricism in natural sciences, to the nature of explanations and predictions, and to experimental verification and refutation. In the second edition, new sections, figures, examples, exercises and remarks are added. Most

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importantly, however, four new appendices of about one-hundred pages are included, which can serve as a self-contained continuum-mechanics course on finite elasticity. Also, they broaden the scope of elasticity theory commonly considered in seismology. Contents: Science of Seismology Seismology and Continuum Mechanics Hookean Solid: Material Symmetry Hookean Solid: Effective Symmetry and Equivalent Medium Body Waves Surface, Guided and Interface Waves Variational Principles in Seismology Gravitational and Thermal Effects in Seismology Seismology as Science Appendices: On Strains On Stresses On Thermoelasticity On Hyperelasticity On Covariant and Contravariant Transformations On Covariant Derivatives List of Symbols Readership: Students, professionals, researchers, and laypersons interested in seismology. Keywords: Elasticity Theory; Inverse Problems; Seismology; Continuum

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m Mechanics;Mathematical PhysicsReview: "This one-of-a-kind book is refreshing in its presentation of an amazing blend of fundamental scientific and philosophical questions with their practical implications to concrete examples in Seismology. It is refined in its style, in the sophistication of its quotes, in the breadth of its sources and in the many details that reveal a labour of love. As an additional bonus, the book is also extremely useful. It presents the underlying theory of the relevant aspects of Continuum Mechanics in a clear and sufficiently rigorous way, while challenging the reader's intellect at every step of the way ... This inspiring book is highly recommended." Professor Marcelo Epstein University of Calgary, Canada "This book provides an extensive and self-contained treatment of the mathematical theory of wave propagation in elastic continua, with special attention to topics, some of them well advanced, which are most important for their

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applications in geophysics ... The author's wide culture, clear style and rigorous approach make this book a first foundation stone of a field which should be called Rational Seismology." Professor Maurizio Vianello Politecnico di Milano, Italy 0

Gravitational Waves Sep 10 2020 Gravitational wave (GW) research is one of the most rapidly developing subfields in experimental physics today. The theoretical underpinnings of this endeavor trace to the discussions of the "speed of gravity" in the 18th century, but the modern understanding of this phenomena was not realized until the middle of the 20th century. The minuteness of the gravitational force means that the effects associated with GWs are vanishingly small. To detect the GWs produced by the most enormously energetic sources in the universe, humans had to build devices capable of measuring the tiniest amounts of forces and displacements. This book delves into the exploration of the basic of the

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theory of GW, their generation, propagation, and detection by various methods. It does not delve into the depths of Einstein's General Relativity, but instead discusses successively closer approximations to the full theory. As a result, the book should be accessible to an ambitious undergraduate student majoring in physics or engineering. It could be read concurrently with standard junior-level textbooks in classical mechanics, and electromagnetic theory.

Wave Motion in Elastic Solids
Dec 26 2021 Self-contained coverage of topics ranging from elementary theory of waves and vibrations in strings to three-dimensional theory of waves in thick plates. Over 100 problems.

Waves And Rays In Seismology: Answers To Unasked Questions (Third Edition) Nov 05 2022 This is a book on seismology dealing with advanced aspects of wave propagation in complex media. It can also be viewed as a book on mathematical modelling,
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wherein the accuracy of describing seismic phenomena exemplifies the modelling itself. The book gives an insight into the power of abstractness by applying the same mathematical methods and strategies to solve a variety of different physical problems. This book covers a broad range of topics in an advanced yet accessible manner. Each chapter is accompanied by a number of solved exercises, which render the book convenient for a lecturer and facilitate its use for an independent study. The details of mathematical methods are discussed in the appendices, which form a substantial portion of the book.

The Navy Electricity and Electronics Training Series: Module 09 Introduction To Wave Generation And Wave Shaping Aug 02 2022

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The Third Wave in Science and Technology Studies

Aug 22 2021 This book analyzes future directions in the study of expertise and experience with the aim of engendering more critical discourse on the general discipline of science and technology studies. In 2002, Collins and Evans published an article entitled "The Third Wave of Science Studies," suggesting that the future of science and technology studies would be to engage in "Studies in Expertise and Experience." In their view, scientific expertise in legal and policy settings should reflect a consensus of formally-trained scientists and citizens with experience in the relevant field (but not "ordinary" citizens). The Third Wave has garnered attention in journals and in international workshops, where scholars delivered papers explicating the theoretical foundations and practical applications of the Third Wave. This book arose out of those workshops, and is the next step in the popularization of the Third Wave. The chapters

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address the novel concept of interactional experts, the use of imitation games, appropriating scientific expertise in law and policy settings, and recent theoretical developments in the Third Wave.

Lenses and Waves

Nov 24 2021 In 1690, Christiaan Huygens (1629-1695) published *Traité de la Lumière*, containing his renowned wave theory of light. It is considered a landmark in seventeenth-century science, for the way Huygens mathematized the corpuscular nature of light and his probabilistic conception of natural knowledge. This book discusses the development of Huygens' wave theory, reconstructing the winding road that eventually led to *Traité de la Lumière*. For the first time, the full range of manuscript sources is taken into account. In addition, the development of Huygens' thinking on the nature of light is put in the context of his optics as a whole, which was dominated by his lifelong pursuit of theoretical

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practical dioptrics. In so doing, this book offers the first account of the development of Huygens' mathematical analysis of lenses and telescopes and its significance for the origin of the wave theory of light. As Huygens applied his mathematical proficiency to practical issues pertaining to telescopes - including trying to design a perfect telescope by means of mathematical theory - his dioptrics is significant for our understanding of seventeenth-century relations between theory and practice. With this full account of Huygens' optics, this book sheds new light on the history of seventeenth-century optics and the rise of the new mathematical sciences, as well as Huygens' oeuvre as a whole. Students of the history of optics, of early mathematical physics, and the Scientific Revolution, will find this book enlightening.

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