

The Nature Of Light And Colour In The Open Air

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New Theory about Light and Colour - Sir Isaac Newton 2020-09-28

To perform my late promise to you, I shall without further ceremony acquaint you, that in the beginning of the Year 1666 (at which time I applied my self to the grinding of Optick glasses of other figures than Spherical,) I procured me a Triangular glass-Prisme, to try therewith the celebrated Phænomena of Colours. And in order thereto having darkened my chamber, and made a small hole in my window-shuts, to let in a convenient quantity of the Suns light, I placed my Prisme at his entrance, that it might be thereby refracted to the opposite wall. It was at first a very pleasing divertisement, to view the vivid and intense colours produced thereby; but after a while applying my self to consider them more circumspectly, I became surprised to see them in an oblong form; which, according to the received laws of Refraction, I expected should have been circular. They were terminated at the sides with streight lines, but at the ends, the decay of light was so gradual, that it was difficult to determine justly, what was their figure; yet they seemed semicircular. Comparing the length of this coloured Spectrum with its breadth, I found it about five times greater; a disproportion so extravagant, that it excited me to a more then ordinary curiosity of examining, from whence it might proceed. I could scarce think, that the various Thickness of the glass, or the termination with shadow or darkness, could have any Influence on light to produce such an effect; yet I thought it not amiss, first to examine those circumstances, and so tryed, what would happen by transmitting light through parts of the glass of divers thicknesses, or through holes in the window of divers bignesses, or by setting the Prisme without so, that the light might pass through it, and be refracted before it was terminated by the hole: But I found none of those circumstances material. The fashion of the colours was in all these cases the same.

The Triumph of Light and Nature - Neil Kent 1992

Traces the development of the art of Sweden, Denmark, Norway, Finland, and Iceland and examines its historical and social background

The Theory of Light - Richard Cockburn Maclaurin 1908

Principles of Biology - Lisa Bartee 2017

The Principles of Biology sequence (BI 211, 212 and 213) introduces biology as a scientific discipline for students planning to major in biology and other science disciplines. Laboratories and classroom activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research.

Introduction to Light - Gary Waldman 2002-01-01

Designed for a nonmathematical undergraduate optics course addressed to art majors, this four-part treatment discusses the nature and manipulation of light, vision, and color. Questions at the end of each chapter help test comprehension of material, which is almost completely presented in a nonmathematical manner. 170 black-and-white illustrations. 1983 edition.

Light and Color in Nature and Art - Samuel J. Williamson 1983-03-08

An introduction to the science of light and color and its applications to photography, art, natural phenomena, and other related areas. Explains the origin of phenomena commonly encountered in nature and art, emphasizing the physical aspects but also touching on aspects of physiology and psychology that

directly influence how visual images are perceived. Covers the effect of mixing color, the notion of color spaces, how atoms and molecules affect light, how light can be measured, the effect of using a lens, and many other topics. Requires little or no mathematical background. Includes questions and references for further reading.

Einstein 1905 - John S RIGDEN 2009-06-30

For Einstein, 1905 was a remarkable year. It was also a miraculous year for the history and future of science. In six short months, he published five papers that would transform our understanding of nature. This unparalleled period is the subject of Rigden's book, which deftly explains what distinguishes 1905 from all other years in the annals of science, and elevates Einstein above all other scientists of the twentieth century.

The Nature of Light - Chandra Roychoudhuri 2008-07-25

Focusing on the unresolved debate between Newton and Huygens from 300 years ago, *The Nature of Light: What is a Photon?* discusses the reality behind enigmatic photons. It explores the fundamental issues pertaining to light that still exist today. Gathering contributions from globally recognized specialists in electrodynamics and quantum optics, the book begins by clearly presenting the mainstream view of the nature of light and photons. It then provides a new and challenging scientific epistemology that explains how to overcome the prevailing paradoxes and confusions arising from the accepted definition of a photon as a monochromatic Fourier mode of the vacuum. The book concludes with an array of experiments that demonstrate the innovative thinking needed to examine the wave-particle duality of photons. Looking at photons from both mainstream and out-of-box viewpoints, this volume is sure to inspire the next generation of quantum optics scientists and engineers to go beyond the Copenhagen interpretation and formulate new conceptual ideas about light-matter interactions and substantiate them through inventive applications.

Light, Vision and Seeing - Mathew Luckiesh 1945

West with the Light - Brian Jackman 2021-07-02

West with the Light biography - autobiography of Brian Jackman, one of the UK's best loved travel and wildlife writers, from childhood memories of the Blitz to Fleet Street journalism and a life-long love affair with Africa. George Adamson, Jonathan Scott and Saba Douglas-Hamilton all feature.

Optics Made Clear - William L. Wolfe 2007

Have you wondered why the sky is blue? Why the sunset is red? How hummingbirds show us their many colors? Why the road ahead sometimes seems to have water on it, when it does not? Have you wondered how telescopes work to give a magnified image of distant objects? How do microscopes provide a magnified image of close objects? How do spectrosopes, eye glasses, cameras, binoculars, and similar instruments work? How do the simple rear view mirrors in cars dim and provide wide fields of view? In this book, William L. Wolfe attempts to describe many of the natural phenomena caused by light, and the optical devices that use it in terms everyone can understand.

Physics of Light and Optics (Black & White) - Michael Ware 2020

Photobiology - Lars Olof Björn 2012-12-06

Photobiology - the science of light and life - begins with basic principles and the physics of light and continues with general photobiological research methods, such as generation of light, measurement of light, and action spectroscopy. In an interdisciplinary way, it then treats how organisms tune their pigments and structures to the wavelength components of light, and how light is registered by organisms. Then follow various examples of photobiological phenomena: the design of the compound eye in relation to the properties of light, phototoxicity, photobiology of the human skin and of vitamin D, photomorphogenesis, photoperiodism, the setting of the biological clock by light, and bioluminescence. A final chapter is devoted to teaching experiments and demonstrations in photobiology. This book encompasses topics from a diverse array of traditional disciplines: physics, biochemistry, medicine, zoology, botany, microbiology, etc., and makes different aspects of photobiology accessible to experts in all these areas as well as to the novice.

Fill Your Watercolors with Nature's Light - Roland Roycroft 2006-06-15

Create Vibrant Watercolor Paintings that Glow with Light! Ever wonder why landscape painting seems to be so complicated? So overburdened with techniques and "tricks" that you can't see the forest for the trees? Well, it doesn't have to be! Artist Roland Roycroft shows you how just a few amazingly easy techniques - masking, color pouring, wiping out color and spattering - can create dramatic, atmospheric landscapes and soft, impressionistic flowers full of light. Roycroft will guide you through a simplified system of composition, color application and self-evaluation that will have you producing better, brighter nature scenes than ever before. Anyone can learn these fun and easy methods! He'll also help you troubleshoot possible problems before they happen, take advantage of the accidents that do and ensure that each time you put your brush to paper, you'll produce a piece of art welcome on anyone's wall.

Nature's Palette - David Lee 2010-09-03

Though he didn't realize it at the time, David Lee began this book twenty-five years ago as he was hiking in the mountains outside Kuala Lumpur. Surrounded by the wonders of the jungle, Lee found his attention drawn to one plant in particular, a species of fern whose electric blue leaves shimmered amidst the surrounding green. The evolutionary wonder of the fern's extravagant beauty filled Lee with awe—and set him on a career-long journey to understand everything about plant colors. Nature's Palette is the fully ripened fruit of that journey—a highly illustrated, immensely entertaining exploration of the science of plant color. Beginning with potent reminders of how deeply interwoven plant colors are with human life and culture—from the shifting hues that told early humans when fruits and vegetables were edible to the indigo dyes that signified royalty for later generations—Lee moves easily through details of pigments, the evolution of color perception, the nature of light, and dozens of other topics. Through a narrative peppered with anecdotes of a life spent pursuing botanical knowledge around the world, he reveals the profound ways that efforts to understand and exploit plant color have influenced every sphere of human life, from organic chemistry to Renaissance painting to the highly lucrative orchid trade. Lavishly illustrated and packed with remarkable details sure to delight gardeners and naturalists alike, Nature's Palette will enchant anyone who's ever wondered about red roses and blue violets—or green thumbs.

Opticks - Sir Isaac Newton 2021-01-01

First published in the year 1704, Sir Isaac Newton's book 'Opticks' analyzes the fundamental nature of light by means of the refraction of light with prisms and lenses, the diffraction of light by closely spaced sheets of glass, and the behaviour of color mixtures with spectral lights or pigment powders.

Polarised Light in Science and Nature - J. David Pye 2001-02-13

We humans cannot see when light is polarized and this leads to unfortunate misapprehensions about this aspect of nature. Even scientists who should know better often assume that it is an obscure topic of specialized interest in only a few rather isolated areas. In fact, it is a universal feature of our world and most natural light is at least partially polarized. In the animal kingdom, insects and other animals exploit such natural polarization in some fascinating ways since they do not share this human deficiency and can both detect and analyze polarization. It may be our unfamiliarity with this aspect of light that also makes people think it is a difficult subject, yet the basis is extremely simple. When these misconceptions are overcome, the phenomena associated with polarization are found to be important throughout science and technology, from physics, astronomy, natural history, geology, chemistry, and several branches of engineering to crafts such as glass-blowing and jewelry. Polarized light also involves some very beautiful

effects, most of which are easy to demonstrate. Enriching our perception of the world, this book addresses these misconceptions and provides a framework for applications. It covers wave alignment and crystals as well as various phenomena such as scattering and reflection.

Color Vision and Colorimetry - Daniel Malacara 2011-01-01

This second edition has been rewritten, updated, and enlarged, describing the basic principles of color vision and colorimetry. The history of color is described, along with the main methods used to measure color and their associated color systems, and the human eye and its color detectors are explained with some detail. The book has been written with students in an introductory color course in mind, but those who have experience in the field will also benefit from the compendium of data within.

University Physics - Samuel J. Ling 2017-12-19

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 and vetted with feedback from science educators dedicated to the project. VOLUME III Unit 1: Optics Chapter 1: The Nature of Light Chapter 2: Geometric Optics and Image Formation Chapter 3: Interference Chapter 4: Diffraction Unit 2: Modern Physics Chapter 5: Relativity Chapter 6: Photons and Matter Waves Chapter 7: Quantum Mechanics Chapter 8: Atomic Structure Chapter 9: Condensed Matter Physics Chapter 10: Nuclear Physics Chapter 11: Particle Physics and Cosmology

The Environmental Psychology of Prisons and Jails - Richard E. Wener 2012-06-18

This book distills thirty years of research on the impacts of jail and prison environments. The research program began with evaluations of new jails that were created by the US Bureau of Prisons, which had a novel design intended to provide a non-traditional and safe environment for pre-trial inmates and documented the stunning success of these jails in reducing tension and violence. This book uses assessments of this new model as a basis for considering the nature of environment and behavior in correctional settings and more broadly in all human settings. It provides a critical review of research on jail environments and of specific issues critical to the way they are experienced and places them in historical and theoretical context. It presents a contextual model for the way environment influences the chance of violence.

The Nature of Light and Colour in the Open Air - M. Minnaert 2013-04-09

A highly engaging study of mirages, illusions of multiple moons, the fata morgana, colored shadows and scores of other phenomena. "Pure pleasure." — Science and Math Weekly. 202 illustrations.

Light and Dark - David Greene 2016-04-19

An entertaining, instructive, diverse, and unusual book, Light and Dark: An Exploration in Science, Nature, Art and Technology encompasses a wide range of topics not normally found in one book. With more than 100 diagrams, graphs, and figures, the subjects discussed include the history of artificial lighting, eclipse cycles, light-sensitive eyeglasses, rainbows, art, bioluminescence, the clock setting at the South Pole, zebra stripe patterns, lighthouses, color perception, the harvest moon, and how information and speech can be conveyed by light from the sun or a laser. The book encourages readers to take a more careful look at many familiar phenomena, such as the variations in the duration of twilight through the year and the ability of human vision to misinterpret patterns of lines under certain conditions. It describes the anatomical

peculiarities of four-eyed fish and explains how the Jewish calendar contrives to follow both solar and lunar cycles. It also presents the reasons why tortoise shell cats are almost always female. Readers are informed where they can see 19th century military equipment that could convey messages rapidly over vast differences.

Vibrations and Waves - A.P. French 2017-12-21

The M.I.T. Introductory Physics Series is the result of a program of careful study, planning, and development that began in 1960. The Education Research Center at the Massachusetts Institute of Technology (formerly the Science Teaching Center) was established to study the process of instruction, aids thereto, and the learning process itself, with special reference to science teaching at the university level. Generous support from a number of foundations provided the means for assembling and maintaining an experienced staff to co-operate with members of the Institute's Physics Department in the examination, improvement, and development of physics curriculum materials for students planning careers in the sciences. After careful analysis of objectives and the problems involved, preliminary versions of textbooks were prepared, tested through classroom use at M.I.T. and other institutions, re-evaluated, rewritten, and tried again. Only then were the final manuscripts undertaken.

Scott L. Christensen - Scott L. Christensen 2005

[The Book of Light](#) - Michael Sharp 2006

The Book of Light, shows you the complete truth about God, the universe, and you. Within the grounded and elegant pages of this book, you will find the answers to top level theological/cosmological questions like "what is the nature of God and consciousness?", "what is the nature of the physical universe?", "what is our highest purpose?", "what is our essential nature" and more. If you ever thought that spiritual enlightenment required sacrifice, strength, or years of effort, if you think that only "the special/the chosen/the few/the evolved" get to be enlightened/saved/go to heaven, if you think ego has anything to do with enlightenment at all, think again. Remember the simple and glorious truth of your divinity. Read The Book of Light and find the divinity within you

Physics in the Arts - Pupa U.P.A. Gilbert 2021-01-16

Physics in the Arts, Third Edition gives science enthusiasts and liberal arts students an engaging, accessible exploration of physical phenomena, particularly with regard to sound and light. This book offers an alternative route to science literacy for those interested in the arts, music and photography. Suitable for a typical course on sound and light for non-science majors, Gilbert and Haeberli's trusted text covers the nature of sound and sound perception as well as important concepts and topics such as light and light waves, reflection and refraction, lenses, the eye and the ear, photography, color and color vision, and additive and subtractive color mixing. Additional sections cover color generating mechanisms, periodic oscillations, simple harmonic motion, damped oscillations and resonance, vibration of strings, Fourier analysis, musical scales and musical instruments. Offers an alternative route to science literacy for those interested in the visual arts, music and photography Includes a new and unique quantitative encoding approach to color vision, additive and subtractive color mixing, a section on a simplified approach to quantitative digital photography, how the ear-brain system works as a Fourier analyzer, and updated and expanded exercises and solutions Provides updated online instructor resources, including labs, chapter image banks, practice problems and solutions

On Vision and Colors - Arthur Schopenhauer 2010-02-15

During the first two decades of the nineteenth century, two of the most significant theoretical works on color since Leonardo da Vinci's *Trattato della Pittura* were written and published in Germany: Arthur Schopenhauer's *On Vision and Colors* and Philipp Otto Runge's *Color Sphere*. For Schopenhauer, vision is wholly subjective in nature and characterized by processes that cross over into the territory of philosophy. Runge's *Color Sphere* and essay "The Duality of Color" contained one of the first attempts to depict a comprehensive and harmonious color system in three dimensions. Runge intended his color sphere to be understood not as a product of art, but rather as a "mathematical figure of various philosophical reflections." By bringing these two visionary color theories together within a broad theoretical context philosophy, art, architecture, and design this volume uncovers their enduring influence on our own

perception of color and the visual world around us.

Treatise on Light - Christiaan Huygens 2018-07-14

Treatise on Light by Christiaan Huygens happens in all the sciences in which Geometry is applied to matter, the demonstrations concerning Optics are founded on truths drawn from experience. Such are that the rays of light are propagated in straight lines; that the angles of reflexion and of incidence are equal; and that in refraction the ray is bent according to the law of sines, now so well known, and which is no less certain than the preceding laws. The majority of those who have written touching the various parts of Optics have contented themselves with presuming these truths. But some, more inquiring, have desired to investigate the origin and the causes, considering these to be in themselves wonderful effects of Nature. In which they advanced some ingenious things, but not however such that the most intelligent folk do not wish for better and more satisfactory explanations. Wherefore I here desire to propound what I have meditated on the subject, so as to contribute as much as I can to the explanation of this department of Natural Science, which, not without reason, is reputed to be one of its most difficult parts. I recognize myself to be much indebted to those who were the first to begin to dissipate the strange obscurity in which these things were enveloped, and to give us hope that they might be explained by intelligible reasoning. But, on the other hand I am astonished also that even here these have often been willing to offer, as assured and demonstrative, reasonings which were far from conclusive. For I do not find that any one has yet given a probable explanation of the first and most notable phenomena of light, namely why it is not propagated except in straight lines, and how visible rays, coming from an infinitude of diverse places, cross one another without hindering one another in any way. We are delighted to publish this classic book as part of our extensive Classic Library collection. Many of the books in our collection have been out of print for decades, and therefore have not been accessible to the general public. The aim of our publishing program is to facilitate rapid access to this vast reservoir of literature, and our view is that this is a significant literary work, which deserves to be brought back into print after many decades. The contents of the vast majority of titles in the Classic Library have been scanned from the original works. To ensure a high quality product, each title has been meticulously hand curated by our staff. Our philosophy has been guided by a desire to provide the reader with a book that is as close as possible to ownership of the original work. We hope that you will enjoy this wonderful classic work, and that for you it becomes an enriching experience

[Color and Light in Nature](#) - David K. Lynch 2001-06-11

We live in a world of optical marvels - from the commonplace but beautiful rainbow, to the rare and eerie superior mirage. But how many of us really understand how a rainbow is formed, why the setting sun is red and flattened, or even why the sky at night is not absolutely black? This beautiful and informative guide provides clear explanations to all naturally occurring optical phenomena seen with the naked eye, including shadows, halos, water optics, mirages and a host of other spectacles. Separating myth from reality, it outlines the basic principles involved, and supports them with many figures and references. A wealth of rare and spectacular photographs, many in full color, illustrate the phenomena throughout. In this new edition of the highly-acclaimed guide to seeing, photographing and understanding nature's optical delights, the authors have added over 50 new images and provided new material on experiments you can try yourself.

[Secret Language of Color](#) - Joann Eckstut 2013-10-22

In this beautiful and thorough investigation, *The Secret Language of Color* celebrates and illuminates the countless ways in which color colors our world. Why is the sky blue, the grass green, a rose red? Most of us have no idea how to answer these questions, nor are we aware that color pervades nearly all aspects of life, from the subatomic realm and the natural world to human culture and psychology. Organized into chapters that begin with a fascinating explanation of the physics and chemistry of color, *The Secret Language of Color* travels from outer space to Earth, from plants to animals to humans. In these chapters we learn about how and why we see color, the nature of rainbows, animals with color vision far superior and far inferior to our own, how our language influences the colors we see, and much more. Between these chapters, authors Joann Eckstut and Arielle Eckstut turn their attention to the individual hues of the visible spectrum?red, orange, yellow, green, blue, and violet?presenting each in fascinating, in-depth detail. Including hundreds of stunning photographs and dozens of informative, often entertaining graphics, every page is a

breathtaking demonstration of color and its role in the world around us. Whether you see red, are a shrinking violet, or talk a blue streak, this is the perfect book for anyone interested in the history, science, culture, and beauty of color in the natural and man-made world.

The Optics of Life - Sönke Johnsen 2012-01-19

Optics--a field of physics focusing on the study of light--is also central to many areas of biology, including vision, ecology, botany, animal behavior, neurobiology, and molecular biology. The Optics of Life introduces the fundamentals of optics to biologists and nonphysicists, giving them the tools they need to successfully incorporate optical measurements and principles into their research. Sönke Johnsen starts with the basics, describing the properties of light and the units and geometry of measurement. He then explores how light is created and propagates and how it interacts with matter, covering topics such as absorption, scattering, fluorescence, and polarization. Johnsen also provides a tutorial on how to measure light as well as an informative discussion of quantum mechanics. The Optics of Life features a host of examples drawn from nature and everyday life, and several appendixes that offer further practical guidance for researchers. This concise book uses a minimum of equations and jargon, explaining the basic physics of light in a succinct and lively manner. It is the essential primer for working biologists and for anyone seeking an accessible introduction to optics. Some images inside the book are unavailable due to digital copyright restrictions.

Color and Light - James Gurney 2010-11-30

Unlike many other art books only give recipes for mixing colors or describe step-by-step painting techniques, **Color and Light** answers the questions that realist painters continually ask, such as: "What happens with sky colors at sunset?", "How do colors change with distance?", and "What makes a form look three-dimensional?" Author James Gurney draws on his experience as a plain-air painter and science illustrator to share a wealth of information about the realist painter's most fundamental tools: color and light. He bridges the gap between abstract theory and practical knowledge for traditional and digital artists of all levels of experience.

The Nature of Animal Light - Edmund Newton Harvey 1920

Light and Color in the Outdoors - Marcel Minnaert 2012-12-06

All of science springs from the observation of nature. In this classic book, the late Professor Minnaert accompanies the reader on a tour of nature's light and color and reveals the myriad phenomena that may be observed outdoors with no more than a pair of eyes and an enquiring mind. From the intriguing shape of the dapples beneath a tree on a sunny day, via rainbows, mirages, and haloes, the colors of liquid, ice, and the sky, to the appearance of the sun, moon, planets, and stars - Minnaert describes and explains them all in a clear language accessible to laymen. This new English edition is supplemented by 80 plates, over half of them in color, taken by the acclaimed photographer Pekka Parviainen, illustrating many of the phenomena - ordinary and exotic - discussed in the book.

Chromic Phenomena 3rd Edition - Peter Bamfield 2018-08-24

Chromic or colour related phenomena are produced in response to a chemical or physical stimulus. This new edition will update the information on all those areas where chemicals or materials interact with light to produce colour, a colour change, or luminescence especially in the imaging, analysis, lighting and display areas. The book has been restructured to show greater emphasis on applications where 'coloured' compounds are used to transfer energy or manipulate light in some way therefore reducing the details on classical dyes and pigments. In the past eight years, since the previous edition, there has been a remarkable increase in the number of papers and reviews being produced reflecting the growth of interest in this area. This ongoing research interest is matched by a large number of new technological applications

gaining commercial value covering e.g. biomedical areas, energy, data storage, physical colour, bio-inspired materials and photonics. This book appeals to industrial chemists, professionals, postgraduates and as high level recommended reading for colour technology courses.

Thirty Years that Shook Physics - George Gamow 2012-05-11

Lucid, accessible introduction to the influential theory of energy and matter features careful explanations of Dirac's anti-particles, Bohr's model of the atom, and much more. Numerous drawings. 1966 edition.

Seeing the Light - David R. Falk 2019-01-28

Seeing the Light is the most accessible and comprehensive study of optics and light on the market. Each chapter is a self-contained lesson, making it easy to learn about specific optical concepts. Diagrams, photos, and illustrations help bring concepts to life, and sections at the ends of chapters explore the more advanced aspects of each topic.

Colour and Light - Karin Fridell Anter 2017-05-17

Colour and Light: Spatial Experience describes the coherent interaction of light and colour in the spatial context. It explains the nature of light to colour specialists, and the nature of colour to light specialists, simultaneously conveying an understanding that light and colour must be thought of together. In addition, it brings out the apparent contradictions between the practically based knowledge of craftsmen, engineers and designers, and the theoretically based knowledge of academics in various disciplines. Including background context, facts and possible approaches, the book provides a basic understanding of light and colour, and their significance for humans in the spatial context.

The Science of Color - Optical Society of America. Committee on Colorimetry 1965

Biocentrism - Robert Lanza 2011

Robert Lanza is one of the most respected scientists in the world a US News and World Report cover story called him a genius and a renegade thinker, even likening him to Einstein. Lanza has teamed with Bob Berman, the most widely read astronomer in the world, to produce Biocentrism, a revolutionary new view of the universe. Every now and then a simple yet radical idea shakes the very foundations of knowledge. The startling discovery that the world was not flat challenged and ultimately changed the way people perceived themselves and their relationship with the world. For most humans of the 15th century, the notion of Earth as ball of rock was nonsense. The whole of Western, natural philosophy is undergoing a sea change again, increasingly being forced upon us by the experimental findings of quantum theory, and at the same time, toward doubt and uncertainty in the physical explanations of the universes genesis and structure. Biocentrism completes this shift in worldview, turning the planet upside down again with the revolutionary view that life creates the universe instead of the other way around. In this paradigm, life is not an accidental byproduct of the laws of physics. Biocentrism takes the reader on a seemingly improbable but ultimately inescapable journey through a foreign universe our own from the viewpoints of an acclaimed biologist and a leading astronomer. Switching perspective from physics to biology unlocks the cages in which Western science has unwittingly managed to confine itself. Biocentrism will shatter the readers ideas of life--time and space, and even death. At the same time it will release us from the dull worldview of life being merely the activity of an admixture of carbon and a few other elements; it suggests the exhilarating possibility that life is fundamentally immortal. The 21st century is predicted to be the Century of Biology, a shift from the previous century dominated by physics. It seems fitting, then, to begin the century by turning the universe outside-in and unifying the foundations of science with a simple idea discovered by one of the leading life-scientists of our age. Biocentrism awakens in readers a new sense of possibility, and is full of so many shocking new perspectives that the reader will never see reality the same way again.