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Father Of Electronics

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An awe-inspiring,
unforgettable journey of
scientific exploration
from Brian Cox and Jeff
Forshaw, the
international
bestselling authors of
Why Does $E=MC^2$? and The
Quantum Universe, with
55 black-&-white and 45
full-color pages
featuring photographs,
diagrams, maps, tables,
and graphs We dare to
imagine a time before
the Big Bang, when the

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entire universe was compressed into a space smaller than an atom. And now, as Brian Cox and Jeff Forshaw show, we can do more than imagine: we can understand. Universal takes us on an epic journey of scientific exploration. It reveals how we can all come to grips with some of the most fundamental questions about our Earth, Sun, and solar system--and the star-filled galaxies beyond. How big is our solar

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system? How quickly is space expanding? How big is the universe? What is it made of? Some of these questions can be answered on the basis of observations you can make in your own backyard. Other answers draw on the astonishing information now being gathered by teams of astronomers operating at the frontiers of the known universe. At the heart of all this lies the scientific method. Science reveals a deeper beauty and connects us

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to each other, to our world, and to our universe. Science reaches out into the unknown. As Universal demonstrates, if we dare to imagine, we can do the same.

In 1938, at the age of 37, Enrico Fermi was awarded the Nobel Prize in Physics. That same year he emigrated from Italy to the United States and, in the course of his experiments, discovered nuclear fission--a process which forms the

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basis of nuclear power and atomic bombs. Soon the brilliant physicist was involved in the top secret race to produce the deadliest weapon on Earth. He created the first self-sustaining chain reaction, devised new methods for purifying plutonium, and eventually participated in the first atomic test. This compelling biography traces Fermi's education in Italy, his meteoric career in the scientific world, his escape from fascism to

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America, and the ingenious experiments he devised and conducted at the University of Rome, Columbia University, and the Los Alamos laboratory. The book also presents a mini-course in quantum and nuclear physics in an accessible, fast-paced narrative that invokes all the dizzying passion of Fermis brilliant discoveries. Oxford Portraits in Science is an on-going series of scientific biographies for young adults.

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Written by top scholars and writers, each biography examines the personality of its subject as well as the thought process leading to his or her discoveries. These illustrated biographies combine accessible technical information with compelling personal stories to portray the scientists whose work has shaped our understanding of the natural world. The Forces of Matter is a series of six

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scientific lectures by author and scientist Michael Faraday.

Faraday, who was known as a popularizer of science presents lectures around the topics of gravitation, cohesion, chemical affinity, heat, magnetism and electricity.

This timely and hugely practical work provides a score of examples from contemporary and historical scientific presentations to show clearly what makes an

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oral presentation effective. It considers presentations made to persuade an audience to adopt some course of action (such as funding a proposal) as well as presentations made to communicate information, and it considers these from four perspectives: speech, structure, visual aids, and delivery. It also discusses computer-based projections and slide shows as well as overhead projections. In particular, it looks at

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ways of organizing
graphics and text in
projected images and of
using layout and design
to present the
information efficiently
and effectively.

Mama was a Missionary
Artist with a Message
Integrated Science Lab
Manual

Scientists of Faith
Universal

An Introduction to Black
Holes, Information and
the String Theory
Revolution

Niels Bohr's Vision of
Physics

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The story of two brilliant nineteenth-century scientists who discovered the electromagnetic field, laying the groundwork for the amazing technological and theoretical breakthroughs of the twentieth century Two of the boldest and most creative scientists of all time were Michael Faraday (1791-1867) and James Clerk Maxwell (1831-1879). This is the story of how these two men - separated in age by forty years - discovered the existence of the electromagnetic field and devised a radically new

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theory which overturned the strictly mechanical view of the world that had prevailed since Newton's time. The authors, veteran science writers with special expertise in physics and engineering, have created a lively narrative that interweaves rich biographical detail from each man's life with clear explanations of their scientific accomplishments. Faraday was an autodidact, who overcame class prejudice and a lack of mathematical training to become renowned for his acute powers of

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experimental observation, technological skills, and prodigious scientific imagination. James Clerk Maxwell was highly regarded as one of the most brilliant mathematical physicists of the age. He made an enormous number of advances in his own right. But when he translated Faraday's ideas into mathematical language, thus creating field theory, this unified framework of electricity, magnetism and light became the basis for much of later, 20th-century physics. Faraday's and

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Maxwell's collaborative efforts gave rise to many of the technological innovations we take for granted today - from electric power generation to television, and much more. Told with panache, warmth, and clarity, this captivating story of their greatest work - in which each played an equal part - and their inspiring lives will bring new appreciation to these giants of science. Biographical novel about Queen Victoria. Nikola Tesla was a major contributor to the electrical revolution that transformed

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daily life at the turn of the twentieth century. His inventions, patents, and theoretical work formed the basis of modern AC electricity, and contributed to the development of radio and television. Like his competitor Thomas Edison, Tesla was one of America's first celebrity scientists, enjoying the company of New York high society and dazzling the likes of Mark Twain with his electrical demonstrations. An astute self-promoter and gifted showman, he cultivated a public image of the eccentric genius. Even at

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the end of his life when he was living in poverty, Tesla still attracted reporters to his annual birthday interview, regaling them with claims that he had invented a particle-beam weapon capable of bringing down enemy aircraft. Plenty of biographies glamorize Tesla and his eccentricities, but until now none has carefully examined what, how, and why he invented. In this groundbreaking book, W. Bernard Carlson demystifies the legendary inventor, placing him within the cultural and technological context of his

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time, and focusing on his inventions themselves as well as the creation and maintenance of his celebrity. Drawing on original documents from Tesla's private and public life, Carlson shows how he was an "idealist" inventor who sought the perfect experimental realization of a great idea or principle, and who skillfully sold his inventions to the public through mythmaking and illusion. This major biography sheds new light on Tesla's visionary approach to invention and the business strategies

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behind his most important technological breakthroughs.

The technology behind computers, fiber optics, and networks did not originate in the minds of engineers attempting to build an Internet. The Internet is a culmination of intellectual work by thousands of minds spanning hundreds of years. We have built concept upon concept and technology upon technology to arrive at where we are today, in a world constructed of silicon pathways and controlled by silicon processors. From

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computers to optical communications, The Silicon Web: Physics for the Internet Age explores the core principles of physics that underlie those technologies that continue to revolutionize our everyday lives. Designed for the nonscientist, this text requires no higher math or prior experience with physics. It starts with an introduction to physics, silicon, and the Internet and then details the basic physics principles at the core of the information technology revolution. A third part examines the

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quantum era, with in-depth discussion of digital memory and computers. The final part moves onto the Internet era, covering lasers, optical fibers, light amplification, and fiber-optic and wireless communication technologies. The relation between technology and daily life is so intertwined that it is impossible to fully understand modern human experience without having at least a basic understanding of the concepts and history behind modern technology, which continues to become more

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prevalent as well as more ubiquitous. Going beyond the technical, the book also looks at ways in which science has changed the course of history. It clarifies common misconceptions while offering insight on the social impacts of science with an emphasis on information technology. As a pioneering researcher in quantum mechanics of light, author Michael Raymer has made his own significant contributions to contemporary communications technology Tesla

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For CSEC

**The Electric Life of Michael
Faraday**

**This Way to the Universe
Forty-eight Biographies of
Historic Scientists and
Their Christian Faith**

**Third Edition, with Portrait
Defender of the Faith**

**Time to expand your
knowledge of Quantum Physics
and Relativity! About this
book... Once you understand
what your world is, only then
do you begin to understand its
true behavior and nature. You,
at that point, change your
perspective on it. Furthermore,
with your changed observation,
you change your creation and,**

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therefore, your physical reality. This is the first step to prosperity. Are you ready to start learning about the theories of QUANTUM PHYSICS AND THE THEORY OF RELATIVITY? KEEP READING! Because of quantum physics, we are on the verge of gravity, we have superconductors and magnetic resonance imaging equipment in hospitals, and now we can even see that time travel is possible. Included in this book... WHAT IS QUANTUM PHYSICS QUANTUM PHYSICS - THE LOCALIZATION OF MANIFESTATION! QUANTUM THEORY - AN OVERVIEW OF

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**THE MYSTIFYING SCIENCE
QUANTUM PHYSICS AND LAW
OF ATTRACTION QUANTUM
THEORY QUANTUM PHYSICS
FOR BETTER HEALTH
QUANTUM PHYSICS AND YOU
QUANTUM PHYSICS - THE
DISCOVERY THAT
SCIENTIFICALLY
DEMOLISHED MATERIALISM
THE QUANTUM DIMENSION
THE RELATION BETWEEN
WAVES AND PARTICLES
WAVE-PARTICLE DUALITY
THE BUILDING BLOCKS OF
MATTER AND WAVE-
PARTICLE DUALITY Although
there are many books available
at the moment on QUANTUM
PHYSICS AND THE THEORY**

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OF RELATIVITY book is different because it really takes you into the concepts and theories with simple, easy-to-understand explanations in plain English, you don't need to be **EINSTEIN** to understand these theories, no matter how complicated they are. There are also unexpected benefits to health and prosperity as this book teaches you to look at the universe in a whole new way. Are you interested in **QUANTUM PHYSICS AND THE THEORY OF RELATIVITY** and how it can improve your life, your relationships and your understanding of life and the fundamental connectedness of

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all things? If the answer is YES... Order Now! Scroll up and click "Buy NOW with 1-click" and download YOUR Copy TODAY!

Transfer Functions of Switching Converters teaches readers how to determine transfer functions of switching power supplies commonly encountered in consumer and industrial markets. The book starts with a smooth introduction to switching cells, going into the details of the first steps of linearization and small-signal modulation. You will then learn how the PWM switch model was derived and how to apply it to the basic

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structures operated in fixed switching frequency and various operating conditions like continuous and discontinuous modes in voltage- or current-mode control. The model is extended to other control schemes like quasi-resonance, constant on- and off-time converters, all with an associated small-signal version. The following chapters explore the founding structures like the buck, the boost and buck-boost cells, later covering their isolated versions like forward or flyback converters. The last chapter deals with more complicated structures like

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**Ćuk, Zeta, SEPIC and LLC.
This vintage book contains
Michael Faraday's 1832
treatise, "Experimental
Researches In Electricity". This
fascinating volume is highly
recommended for those with
an interest in the development
and application of electricity,
and it is not to be missed by
collectors of vintage scientific
literature. Contents include:
"Induction of Electric
Currents", "Evolution of
Electricity from Magnetism",
"New Electrical State or
Condition of Matter",
"Explication of Arago's
Magnetic Phenomena",
"Terrestrial Magneto-electric**

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Induction", "General remarks and illustrations of the Force and Direction of Magneto-electric Induction", "Identity of Electricities derived from different sources", et cetera. Michael Faraday (1791-1867) was an English scientist who specialised in electromagnetism and electrochemistry. Many vintage books such as this are increasingly scarce and expensive. We are republishing this volume now in an affordable, modern edition complete with a specially commissioned new introduction.

The Story of Inventions

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documents several key inventions that have had an important impact on the growth of our modern industrialized world. Each chapter is more than a history of a particular invention; it is also the story of the inventors who created these new products and processes. Readers will learn how major inventions came about and how the character traits of each inventor contributed to their success. The second edition includes illustrations that help the reader grasp details regarding important inventions that have changed the way people live. The twenty-

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one chapters in this book have been divided into four units power, manufacturing, communications, and transportation. Comprehension questions at the end of each chapter will help students evaluate how well they understand the text."

Elusive

Samuel F.B. Morse

A Guide to the Cosmos

What Animals on Earth Reveal about Aliens - and Ourselves

A Theoretical Physicist's

Journey to the Edge of Reality

Biographies of Scientists

From Data to Quanta

The personal stories of forty-eight historic

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scientists and an overview of their contributions to their field and faith.

For readers of Sean Carroll, Brian Greene, Katie Mack, and anyone who wants to know what theoretical physicists actually do. *This Way to the Universe* is a celebration of the astounding, ongoing scientific investigations that have revealed the nature of reality at its smallest, at its largest, and at the scale of our daily

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lives. The enigmas that Professor Michael Dine discusses are like landmarks on a fantastic journey to the edge of the universe. Asked where to find out about the Big Bang, Dark Matter, the Higgs boson particle—the long cutting edge of physics right now—Dine had no single book he could recommend. This is his accessible, authoritative, and up-to-date answer. Comprehensible to anyone with a high-school level

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education, with almost no equations, there is no better author to take you on this amazing odyssey. Dine is widely recognized as having made profound contributions to our understanding of matter, time, the Big Bang, and even what might have come before it. This Way to the Universe touches on many emotional, critical points in his extraordinary career while presenting mind-bending physics like his answer to the Dark

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Matter and Dark Energy mysteries as well as the ideas that explain why our universe consists of something rather than nothing. People assume String Theory can never be tested, but Dine intrepidly explores exactly how the theory might be tested experimentally, as well as the pitfalls of falling in love with math. This book reflects a lifetime pursuing the deepest mysteries of reality, by one of the most humble and warmly

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engaging voices you will ever read.

- A unique exposition of the foundations of the quantum theory of black holes including the impact of string theory, the idea of black hole complementarity and the holographic principle
bull; Aims to educate the physicist or student of physics who is not an expert on string theory, on the revolution that has grown out of black hole physics and string theory

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**ElectronicsMennoMedia,
Inc.**

**Einstein's Unfinished
Revolution**

**He Freed Britain's
Slaves**

**Transfer Functions of
Switching Converters**

**A Life from Beginning to
End**

Father of Electronics

The Story of Inventions

Preliminaries. From laboratory to theory ; from classical experiments to quantum theory -- Bohr's vision in practice : the old quantum theory. Spectral lines, quantum states, and a master model of the atom ; The

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correspondence principle as an intermediary hypothesis ; Reception ; The scientific moderator -- Toward Quantum mechanics. Quantum corpuscles, quantum waves, and the experiments ; The uncertainty principle as an intermediary hypothesis ; Metaphysical principles and heuristic rules ; New formalisms and Bohr's atom -- Complementarity established and applied -- Aftermath. Bohr and the "Copenhagen orthodoxy" ; Bohr's response to the Einstein-Podolsky-Rosen argument ; The mature Bohr and the rise of slick theory and theoreticians.

Charles Ludwig retells Michael Faraday's remarkable life story in fictionalized form. Here is the father

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of the electric motor, the dynamo, the transformer, the generator. Few persons are aware of the brilliant man's deep Christian convictions and his determination to live by the Sermon on the Mount. For ages 12 to 15.

Shortly after the death of Michael Faraday, Professor Auguste de la Rive, and others of his friends, gave to the world their impressions of his life, his character, and his work; Professor Tyndall drew his portrait as a man of science; and after a while Dr. Bence Jones published his biography in two octavo volumes, with copious extracts from his journals and correspondence. In a review of this "Life and Letters" I happened to mention my thought of

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giving to the public some day my own reminiscences of the great philosopher; several friends urged me to do so, not in the pages of a magazine, but in the form of a little book designed for those of his fellow-countrymen who venerate his noble character without being able to follow his scientific researches. I accepted the task. Professor Tyndall and Dr. Bence Jones, with Messrs. Longman, the publishers, kindly permitted me to make free use of their materials; but I am indebted to the Corporation of the Trinity House, and to many friends, for a good deal of additional information; and in compiling my book I have preferred, where practicable, to illustrate the character of Faraday by documents

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or incidents hitherto unpublished, or contained in those sketches of the philosopher which are less generally known. It is due to myself to say that I had pretty well sketched out the second part of this book before I read M. Dumas' "Eloge Historique." The close similarity of my analysis of Professor Faraday's character with that of the illustrious French chemist may perhaps be accepted as an additional warrant for the correctness of our independent estimates.

Biographies of Scientists Five Books in One [?] Albert Einstein: A Life From Beginning to End [?] Isaac Newton: A Life From Beginning to End [?] Galileo Galilei: A Life From Beginning to End [?] Charles Darwin: A Life From

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Beginning to End[?] Michael Faraday: A Life From Beginning to EndAlbert EinsteinHow did one insignificant patent clerk change the world? Step into the world of Albert Einstein in this book and find out what was so extraordinary about him. Why did it take so long for him to win the Nobel Prize? What kind of a father was Einstein to his boys? How did his marriages affect his work? What motivated him? And most importantly; what unlocked his mind to grapple with the most profound ideas of all time? Find out why Einstein valued creativity and freedom as the foundation stones of a good life, and how these two traits would inspire him and help to transform the world as it was known

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up until then. Isaac Newton Isaac Newton seemed to be a most unwanted child of the world. Ignored by his mother, scorned by contemporaries, seemingly at war with the world in which he lived, Newton turned his energies to things unseen. His laws of motion and law of universal gravitation would set the stage for a most extraordinary life. Follow along as you travel from a rugged stone farmhouse to Trinity College, Cambridge to the halls of London exhibitions where Newton found himself the celebrity of the age. Looking back on Aristotle, and inspired by all that Galileo had brought the world, Newton made his life work much of what is heralded as the modern age. He saw what no

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one else did, and his vision saw into the universe. See how he did it, and why.

Galileo GalileiGalileo Galilei began his career as a mathematician. Yet as fate would have it, he became far more than a numbers whiz. Here was a true Renaissance man; one who was greatly educated and a genuine lover of the arts. He was a fan of poets and a fine lute player. When in 1609 Galileo created his first telescope and turned his attention to the skies, everything changed. His discoveries as they came, could not be denied. Because of his years of study in the arts and humanities, Galileo was well prepared to bring his ideas into the light of day.

Charles DarwinCharles Darwin thought he

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would be a clergyman after an uneventful childhood, where he hated school but loved the natural world. All that would change when he was allowed to be a part of a worldwide expedition to faraway lands. He was able to collect specimens and keep notes on all he experienced. This eBook takes a closer look at who Charles Darwin was, how he lived his everyday life and how influential he became; not just in his own day but into the modern world as well. Find out what interested his incredible mind and how Darwin presented his theories to a yet unsuspecting world. From beetles to butterflies, coral reefs and tropical islands, from apes to humans, learn how Charles Darwin's

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evidence speaks even to the world today. Michael Faraday Michael Faraday is regarded as one of the founding fathers of modern physics. His work in the field of electromagnetism revolutionized society, leading to new avenues of study and developments of technology that would leave the world changed forever. Without Faraday

The Easy Guide to Learn Quantum Physics and the Theory of Relativity
Did Man Just Happen?

The Craft of Scientific Presentations
A Life of Discovery

Inventor, Scientist, and Teacher
Michael Faraday

About Time

Examines the ramifications of

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Einstein's relativity theory, exploring the mysteries of time and considering black holes, time travel, the existence of God, and the nature of the universe

Michael Faraday was one of the most gifted and intuitive experimentalists the world has ever seen. Born into poverty in 1791 and trained as a bookbinder, Faraday rose through the ranks of the scientific elite even though, at the time, science was restricted to the wealthy or well-connected. During a career that spanned more than four decades, Faraday laid the

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groundwork of our technological society-notably, inventing the electric generator and electric motor. He also developed theories about space, force, and light that Einstein called the "greatest alteration . . . in our conception of the structure of reality since the foundation of theoretical physics by Newton." The Electric Life of Michael Faraday dramatizes Faraday's passion for understanding the dynamics of nature. He manned the barricades against superstition and pseudoscience, and pressed

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for a scientifically literate populace years before science had been deemed worthy of common study. A friend of Charles Dickens and an inspiration to Thomas Edison, the deeply religious Faraday sought no financial gain from his discoveries, content to reveal God's presence through the design of nature. In *The Electric Life of Michael Faraday*, Alan Hirshfeld presents a portrait of an icon of science, making Faraday's most significant discoveries about electricity and magnetism readily understandable, and

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**presenting his momentous
contributions to the modern
world.**

**A fictionalized account of the
British scientist's life
contrasts his lack of formal
education with his creation of
such important inventions as
the electric motor, the
transformer, and the generator
Presents the life of Michael
Faraday, the discoverer of the
fundamental laws of
electricity, recounting his rise
from a humble background to
his eventual position as one of
the leading scientists of his
time.**

Experimental Researches In

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Electricity -

**Physics of Light and Optics
(Black & White)**

Physics for the Internet Age

Quantum Physics for

Beginners

Champion of Freedom

The Improvement of the Mind

**How Peter Higgs Solved the
Mystery of Mass**

*DISCOVER HOW LIFE REALLY
WORKS - ON EARTH AND IN*

*SPACE 'A wonderfully insightful
sidelong look at Earthly biology'*

*Richard Dawkins 'Crawls with
curious facts' Sunday Times*

*We are
unprepared for the greatest
discovery of modern science.*

Scientists are confident that there

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is alien life across the universe yet we have not moved beyond our perception of 'aliens' as Hollywood stereotypes. The time has come to abandon our fixation on alien monsters and place our expectations on solid scientific footing. Using his own expert understanding of life on Earth and Darwin's theory of evolution - which applies throughout the universe - Cambridge zoologist Dr Arik Kershenbaum explains what alien life must be like. This is the story of how life really works, on Earth and in space.

'An entertaining, eye-opening and, above all, a hopeful view of what - or who - might be out there in the cosmos' Philip Ball, author of Nature's Patterns 'A fascinating

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insight into the deepest of questions: what might an alien actually look like' Lewis Dartnell, author of Origins 'If you don't want to be surprised by extraterrestrial life, look no further than this lively overview of the laws of evolution that have produced life on earth' Frans de Waal, author of Mama's Last Hug The first major biography of Peter Higgs, revealing how a short burst of work changed modern physics

On July 4, 2012, the announcement came that one of the longest-running mysteries in physics had been solved: the Higgs boson, the missing piece in understanding why particles have mass, had finally been discovered. On the rostrum, surrounded by jostling physicists

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and media, was the particle's retiring namesake—the only person in history to have an existing single particle named for them. Why Peter Higgs? Drawing on years of conversations with Higgs and others, Close illuminates how an unprolific man became one of the world's most famous scientists. Close finds that scientific competition between people, institutions, and states played as much of a role in making Higgs famous as Higgs's work did. A revelatory study of both a scientist and his era, Elusive will remake our understanding of modern physics. Many books and articles have been written about Nikola Tesla's scientific achievements, but none of them succeed in stating these

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highly technical problems as clearly and understandably as Tesla himself does in his own writings and lectures. On the other hand, comparatively little has been written about Tesla the man. Therefore a special vote of thanks is due the late John J. O'Neill for his book, PRODIGAL GENIUS: THE LIFE OF NIKOLA TESLA, a painstaking character study of the great scientist, his family and his background. A biography of the artist and inventor who devised the world's first practical telegraph system. Critical Steps to Succeed and Critical Errors to Avoid Inventor of the Electrical Age Electrical Genius D The Zoologist's Guide to the Galaxy

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The Silicon Web

Isaac Newton

*How Two Men Revolutionized
Physics*

A fictionalized biography of William Wilberforce, who led the British war against slavery.

Michael Faraday Michael Faraday is regarded as one of the founding fathers of modern physics. His work in the field of electromagnetism revolutionized society, leading to new avenues of study and developments of technology that would leave the world changed forever. Without Faraday's discoveries, there would be no electronics or electrical power. There would be no technology as we recognize it, or at the very least those technologies would have taken

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much longer to arise, causing our time to look very different. Inside you will read about... - A

Blacksmith's Son - From Bookbinder to Man of Science - The Royal Institution - Electricity - Magnetism - Famous Faraday And much more! This book tells the story of Michael Faraday's life from birth to death and the remarkable discoveries he made during his lifetime.

A biography of the seventeenth-century English scientist who developed the theory of gravity, discovered the secrets of light and color, and formulated the system of calculus.

This Science Lab Manual consists of over 30 lab based experiments for students aged 12 - 17 years. The manual also guides students

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***on how to write up experiments
and outlines for teachers the
skills being tested for and
suggestions for discussions.***

The Holographic Universe

***A Text-book of Electrical
Engineering for Second Year
Students***

The Forces of Matter

***Michael Faraday, Giant of the
Scientific Revolution***

***Experimental Researches in
Electricity***

Enrico Fermi

Chemical Researches