

# The Quantum Astrologer's Handbook: A History Of The Renaissance Mathematics That Birthed Imaginary Numbers, Probability, And The New Physics Of The Universe

“An exuberant tour through the world of scientists behaving badly” (The New York Times). They may have a public image as cool, logical, levelheaded types. But in reality, scientists will do pretty much anything—take drugs, follow mystical visions, lie, and even cheat—to make a discovery. In *Free Radicals*, physicist and journalist Michael Brooks seamlessly weaves together true stories of the “mad, bad and dangerous” men and women who have revolutionized the scientific world, and offers a fast-paced and thrilling exploration of the real process behind discovery (The Times, London). Brooks also traces the cover-up back to its source: the scientific establishment’s reaction to the public fear of science after World War II. He argues that it is its high time for science to come clean about just how bold and daring scientists really are. “Not all scientists are nerds. In *Free Radicals*, physicist Michael Brooks tries to dispel the notion that scientists are stuffy, pen-protector-polishing bookworms.” —The Washington Post “Insightful . . . A page-turning, unvarnished look at the all-too-human side of science.”

—Kirkus Reviews

What human qualities are needed to make scientific discoveries, and which to make great art? Many would point to 'imagination' and 'creativity' in the second case but not the first. This book challenges the assumption that doing science is in any sense less creative than art, music or fictional writing and poetry, and treads a historical and contemporary path through common territories of the creative process. The methodological process called the 'scientific method' tells us how to test ideas when we have had them, but not how to arrive at hypotheses in the first place. Hearing the stories that scientists and artists tell about their projects reveals commonalities: the desire for a goal, the experience of frustration and failure, the incubation of the problem, moments of sudden insight, and the experience of the beautiful or sublime. Selected themes weave the practice of science and art together: visual thinking and metaphor, the transcendence of music and mathematics, the contemporary rise of the English novel and experimental science, and the role of aesthetics and desire in the creative process. Artists and scientists make salient comparisons: Defoe and Boyle; Emerson and Humboldt, Monet and Einstein, Schumann and Hadamard. The book draws on medieval philosophy at many points as the product of the last age that spent time in inner contemplation of the mystery of how something is mentally brought out from nothing. Taking the phenomenon of the rainbow as an example, the principles of creativity within constraint point to the scientific imagination as a parallel of poetry.

Science starts to get interesting when things don't make sense. Even today there are experimental results that the most brilliant scientists can neither explain nor dismiss. In the past, similar anomalies have revolutionised our world: in the sixteenth century, a set of celestial irregularities led Copernicus to realise that the Earth goes around the sun and not the reverse. In *13 Things That Don't Make Sense* Michael Brooks meets thirteen modern-day anomalies that may become tomorrow's breakthroughs. Is ninety six percent of the universe missing? If no study has ever been able to definitively show that the placebo effect works, why has it become a pillar of medical science? Was the 1977 signal from outer space a transmission from an alien civilization? Spanning fields from chemistry to cosmology, psychology to physics, Michael Brooks thrillingly captures the excitement and controversy of the scientific unknown.

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This book attempts to highlight the scientific aspects and implications of Astrology. An attempt has been made by the authors to explore certain fascinating scientific probabilities to explain Astrology. This journey explores Quantum Mechanical aspects of Quantum Entanglement and Quantum Gravity and the, General and Special Theory of Relativity of Einstein in relation to Space-Time distortion and the Time-Lag of planetary influence, String-Super-String-Brane-M Theories, Dark Energy and lensing effects of planets, as possible routes to understanding the influence of planets on the genetic materials of human beings. This book, further highlights the role of two other important factors -, namely, genetic make-up of the individual and the environment in which the individual grows -, in super-imposing the effect of planets at birth for making an accurate prediction. The unique placement of the moon in terms of its probable 'lensing effect' is highlighted. Astrological criteria to promote and sustain life on exo-planets, is also explained in a chapter. The final chapter deals with irrational practices and mis-concepts existing in astrological practices and the dire need to get rid of such practices to enhance the acceptability and credibility of Astrology.

From Schrodinger's cat to Heisenberg's uncertainty principle, this book untangles the weirdness of the quantum world. Quantum mechanics underpins modern science and provides us with a blueprint for reality itself. And yet it has been said that if you're not shocked by it, you don't understand it. But is quantum physics really so unknowable? Is reality really so strange? And just how can cats be half-alive and half-dead at the same time? Our journey into the quantum begins with nature's own conjuring trick, in which we discover that atoms -- contrary to the rules of everyday experience -- can exist in two locations at once. To understand this we travel back to the dawn of the twentieth century and witness the birth of quantum theory, which over the next one hundred years was to overthrow so many of our deeply held notions about the nature of our universe. Scientists and philosophers have been left grappling with its implications every since.

At the Edge of Uncertainty

What They Won't Teach You in School That Could Change Your Life

The New Energy Science of Conscious Manifestation

Quantum Leaps in the Wrong Direction

Quantum

Intimations of a New World View

The Worlds and Works of a Renaissance Astrologer

Reading the Planets through Capital, Power, and Labor

An illuminating, millennia-spanning history of the impact mathematics has had on the world, and the fascinating people who have mastered its inherent power Counting is not innate to our nature, and without education humans can rarely count past three — beyond that, it's just — more. — But once harnessed by our ancestors, the power of numbers allowed humanity to flourish in ways that continue to lead to discoveries and enrich our lives today. Ancient tax collectors used basic numeracy to fuel the growth of early civilization, navigators used clever geometrical tricks to engage in trade and connect people across vast distances, astronomers used logarithms to unlock the secrets of the heavens, and their descendants put them to use to land us on the moon. In every case, mathematics has proved to be a greatly underappreciated engine of human progress. In this captivating, sweeping history, Michael Brooks acts as our guide through the ages. He makes the case that mathematics was one of the foundational innovations that catapulted humanity from a nomadic existence to civilization, and that it has since then been instrumental in every great leap of humankind. Here are ancient Egyptian priests, Babylonian bureaucrats,

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medieval architects, dueling Swiss brothers, renaissance painters, and an eccentric professor who invented the infrastructure of the online world. Their stories clearly demonstrate that the invention of mathematics was every bit as important to the human species as was the discovery of fire. From first page to last, *The Art of More* brings mathematics back into the heart of what it means to be human. *The Quantum Mindset in a Nutshell* teaches us that anything we can imagine is considered possible. By using quantum insights to align your attitudes, beliefs, and expectations with the deeper nature of the universe, you can become a potent mind pioneer - and advance into a more expansive and successful human experience.

The easiest way to learn astrology is to start with yourself. Your astrological birth chart is a powerful tool for gaining a deeper understanding of your unique gifts, talents, challenges, and life's purpose. As you begin to decipher the wealth of information in your own birth chart, you'll experience astrology in a personally meaningful way-which makes it easier to understand and remember. Once you learn the basics of astrology, you'll be able to read the birth charts of yourself and others. This friendly guidebook is the most complete introduction to astrology available. Popular astrologer Kris Brandt Riske presents the essentials of astrology in a clear, step-by-step way, paying special attention to three areas of popular interest: relationships, career, and money. She explains the meaning of the planets, zodiac signs, houses, and aspects, and how to interpret their significance in your chart. Over 30 illustrations, including the birth charts of several famous people—Al Gore, Oprah Winfrey, Brad Pitt, and Tiger Woods, to name just a few—add a helpful visual dimension to your learning experience. Practical and positive, *Llewellyn's Complete Book of Astrology* offers techniques for using astrology to identify the qualities you seek in an ideal mate, realize your career and financial potential, calculate your luck, and discover your inner strength.

*The Black Hole Book* is your guide to the mysteries of Deep Space in astrological interpretation. These celestial powerhouses are revealed as important formative agents, both in our character and in the events unfolding in the world around us. With extensive interpretive material on Black Hole interaction with each planet that can be applied to the birth chart, supported by detailed examples from celebrity charts and current events, *The Black Hole Book* also delves into cutting edge astrophysical theory to explain the scientific background on how these energy transducers operate and the effect they have in our lives. Whether amateur or beginning student, novice or seasoned astrological professional, *The Black Hole Book* offers something for everyone, and opens a window into a dynamic level of celestial functioning underpinning the planetary energies of our solar system. Astrologer Alex Miller has encapsulated more than twenty years of active research and counseling with these anomalies to provide a roadmap to the inner workings of that most elusive of celestial phenomena, the Black Hole. What can you do with your astrological birth chart? If you're an astrologer, you learn amazing information about your personality and make predictions. If you're not an astrologer, you can puzzle over the circles and symbols--until now. *Astrology for Self-Empowerment* by Dovid Strusiner moves astrology to entirely new realms, making this a must for both the astrological expert and those unfamiliar with the science. It takes the basic information from the chart and shows you how to change your life so you can achieve your spiritual and worldly goals easily. The technique starts with the birth chart. If you are an astrologer, you can draw this yourself. If not, the book includes a coupon to receive a free natal chart. Even the postage is paid. The book describes the basic meanings of the sun signs, planets, and more--but that is just the start--*Astrology for Self-Empowerment* shows that you are not at the mercy of the planets and stars. Instead, you can use their archetypal power to:

- Create the future you want
- Overcome self-defeating subconscious programming
- Create a life that is richer in every way

This book shows you how to do this with techniques of self-exploration, visualization, affirmation, invocation, breath work, and working with the gems and crystals associated with the planets and signs. These are tied together in a powerful and easy-to-use program for self-change and

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empowerment. Examples show you how to do this easily for yourself. Astrology for Self-Empowerment will empower you to change your universe and become what you want to be. You owe it to yourself to get this book. This is a Print-on-Demand title. Please allow an additional 2-3 days for delivery

The Order of Time

ASTROLOGY □ A SCIENCE OF THE QUANTUM WORLD

Quantum Trading

The Secret Formula

A Guide For The Perplexed

The Maths That Made Us

The Easy Way to Learn Astrology

Discovering Science in Astrology

***Presents a history of science, focusing on its influence in the transition from humanity's primitive beginnings up to the modern day, with profiles of famous scientists responsible for some of the world's greatest scientific discoveries. --Publisher's description.***

***A preeminent physicist unveils a field-defining theory of the origins and purpose of life. Why are we alive? Most things in the universe aren't. And everything that is alive traces back to things that, puzzlingly, weren't. For centuries, the scientific question of life's origins has confounded us. But in Every Life Is on Fire, physicist Jeremy England argues that the answer has been under our noses the whole time, deep within the laws of thermodynamics. England explains how, counterintuitively, the very same forces that tend to tear things apart assembled the first living systems. But how life began isn't just a scientific question. We ask it because we want to know what it really means to be alive. So England, an ordained rabbi, uses his theory to examine how, if at all, science helps us find purpose in a vast and mysterious universe. In the tradition of Viktor Frankl's Man's Search for Meaning, Every Life Is on Fire is a profound testament to how something can come from nothing.***

***Quadratic equations, Pythagoras' theorem, imaginary numbers, and pi – you may remember studying these at school, but did anyone ever explain why? Never fear – bestselling science writer, and your new favourite maths teacher, Michael Brooks, is here to help. In***

***The Maths That Made Us, Brooks reminds us of the wonders of numbers: how they enabled explorers to travel far across the seas and astronomers to map the heavens; how they won wars and halted the HIV epidemic; how they are responsible for the design of your home and almost everything in it, down to the smartphone in your pocket. His clear explanations of the maths that built our world, along with stories about where it came from and how it shaped human history, will engage and delight. From ancient Egyptian priests to the Apollo astronauts, and Babylonian tax collectors to juggling robots, join Brooks and his extraordinarily eccentric cast of characters in discovering how maths made us who we are today.***

***A book of science like no other, about a scientist like no other. This is a landmark in science writing. It resurrects from the vaults of neglect the polymath Jerome Cardano, a Milanese of the sixteenth century. Who is he? A gambler and blasphemer, inventor and chancer, plagued by demons and anxieties, astrologer to kings, emperors and popes. This stubborn and unworldly man was the son of a lawyer and a brothel keeper, but also a gifted physician and the unacknowledged discoverer of the mathematical foundations of quantum physics. That is the argument of this charming and intoxicatingly clever book, which is truly original in its style, and in the manner of the modernists embodies in its very form its theories about the world. The Quantum Astrologer's Handbook is a science book with the panache of a novel, for readers of Carlo Rovelli or Umberto Eco. It is a work of and about genius. 'Jerome Cardano is my all-time favourite mathematical rogue. Michael Brooks has brought him vividly to life in entertaining, informative, and highly original conversations about frontier physics, held across a gulf of centuries. A daring and successful experiment and a new kind of popular science writing.' -Ian Stewart 'Michael Brooks is a magician in the old sense - both scientist and artist. He uses both disciplines to create a compelling, fresh look at the quantum world. A fantastic read for students of reality.' -Gwyneth Lewis, author of Sunbathing in the Rain***

***He is considered the father of modern astrology: Alan Leo opened up the secrets of divination by the stars to the general public in the early 20th century with a popular line of astrology manuals that set off a craze for horoscopes that continues to this day.***

**Here, in this replica of the 1910 fourth edition of his essential primer, Leo teaches us. . the basics of astronomy required for an understanding of astrology . the nature and character of the twelve signs of the Zodiac . complete breakdowns of the affect of the Sun and the Moon on each house . what a horoscope is and how to cast one . and more. ALSO FROM COSIMO: Leo's The Key to Your Own Nativity, Symbolism and Astrology: An Introduction to Esoteric Astrology, Horary Astrology, and Mars: The War Lord British astrologer WILLIAM FREDERICK ALLAN (1860-1917), aka Alan Leo, published Astrologer's Magazine as well as a line of astrological materials; he founded the Astrological Lodge of the Theosophical Society in 1915.**

**Finding Nature's Deep Design**

**How Mathematics Created Civilization**

**Astrology for Self Empowerment**

**Quantum Affirmations**

**Can We Travel Through Time?**

**The Quantum Mindset in a Nutshell**

**Free Radicals**

**Astrophysics for Young People in a Hurry**

*One of TIME's Ten Best Nonfiction Books of the Decade "Meet the new Stephen Hawking . . . The Order of Time is a dazzling book." --The Sunday Times From the bestselling author of Seven Brief Lessons on Physics, Reality Is Not What It Seems, and Helgoland, comes a concise, elegant exploration of time. Why do we remember the past and not the future? What does it mean for time to "flow"? Do we exist in time or does time exist in us? In lyric, accessible prose, Carlo Rovelli invites us to consider questions about the nature of time that continue to puzzle physicists and philosophers alike. For most readers this is unfamiliar terrain. We all experience time, but the more scientists learn about it, the more mysterious it remains. We think of it as uniform and universal, moving steadily from past to future, measured by clocks. Rovelli tears down these assumptions one by one, revealing a strange universe where at the most fundamental level time disappears. He explains how the theory of quantum gravity attempts to understand and give meaning to the resulting extreme landscape of this timeless world. Weaving together ideas from philosophy, science and literature, he suggests that our perception of the flow of time depends on our perspective, better understood starting from the structure of our brain and emotions than from the physical universe. Already a bestseller in Italy, and written with the poetic vitality that made Seven Brief*

*Lessons on Physics so appealing, The Order of Time offers a profoundly intelligent, culturally rich, novel appreciation of the mysteries of time.*

*"Dr. Amit Goswami is one of the most brilliant minds in the world of science. His insights into the relationship between physics and consciousness have deeply influenced by understanding, and I am deeply grateful to him. Physics of the Soul is both challenging and brilliant." —Deepak Chopra Quantum Physics and Spirituality Made Simple At last, science and the soul shake hands. Writing in a style that is both lucid and charming, mischievous and profound, Dr. Amit Goswami uses the language and concepts of quantum physics to explore and scientifically prove metaphysical theories of reincarnation and immortality. In Physics of the Soul, Goswami helps readers understand the perplexities of the quantum physics model of reality and the perennial beliefs of spiritual and religious traditions. He shows how they are not only compatible but also provide essential support for each other. The result is a deeply broadened, exciting, and enriched worldview that integrates mind and spirit into science.*

*The definitive account of Aristotle's life and school This definitive biography shows that Aristotle's philosophy is best understood on the basis of a firm knowledge of his life and of the school he founded. First published in Italian, and now translated, updated, and expanded for English readers, this concise chronological narrative is the most authoritative account of Aristotle's life and his Lyceum available in any language. Gathering, distilling, and analyzing all the evidence and previous scholarship, Carlo Natali, one of the world's leading Aristotle scholars, provides a masterful synthesis that is accessible to students yet filled with evidence and original interpretations that specialists will find informative and provocative. Cutting through the controversy and confusion that have surrounded Aristotle's biography, Natali tells the story of Aristotle's eventful life and sheds new light on his role in the foundation of the Lyceum. Natali offers the most detailed and persuasive argument yet for the view that the school, an important institution of higher learning and scientific research, was designed to foster a new intellectual way of life among Aristotle's followers, helping them fulfill an aristocratic ideal of the best way to use the leisure they enjoyed. Drawing a wealth of connections between Aristotle's life and thinking, Natali demonstrates how the two are mutually illuminating. For this edition, ancient texts have been freshly translated on the basis of the most recent critical editions; indexes have been added, including a comprehensive index of sources and an index to previous scholarship; and scholarship that has appeared since the book's original publication has been incorporated.*

*The legendary Renaissance math duel that ushered in the modern age of algebra The Secret Formula tells the story of two Renaissance mathematicians whose jealousies, intrigues, and contentious debates led to the discovery of a formula for the solution of the cubic equation. Niccolò Tartaglia was a talented and ambitious teacher who possessed a secret formula—the key to unlocking a seemingly unsolvable, two-thousand-year-old*

*mathematical problem. He wrote it down in the form of a poem to prevent other mathematicians from stealing it. Gerolamo Cardano was a physician, gifted scholar, and notorious gambler who would not hesitate to use flattery and even trickery to learn Tartaglia's secret. Set against the backdrop of sixteenth-century Italy, The Secret Formula provides new and compelling insights into the peculiarities of Renaissance mathematics while bringing a turbulent and culturally vibrant age to life. It was an era when mathematicians challenged each other in intellectual duels held outdoors before enthusiastic crowds. Success not only enhanced the winner's reputation, but could result in prize money and professional acclaim. After hearing of Tartaglia's spectacular victory in one such contest in Venice, Cardano invited him to Milan, determined to obtain his secret by whatever means necessary. Cardano's intrigues paid off. In 1545, he was the first to publish a general solution of the cubic equation. Tartaglia, eager to take his revenge by establishing his superiority as the most brilliant mathematician of the age, challenged Cardano to the ultimate mathematical duel. A lively and compelling account of genius, betrayal, and all-too-human failings, The Secret Formula reveals the epic rivalry behind one of the fundamental ideas of modern algebra.*

*Girolamo Cardano was an Italian doctor, natural philosopher, and mathematician who became a best-selling author in Renaissance Europe. He was also a leading astrologer of his day, whose predictions won him access to some of the most powerful people in sixteenth-century Europe. In Cardano's Cosmos, Anthony Grafton invites readers to follow this astrologer's extraordinary career and explore the art and discipline of astrology in the hands of a brilliant practitioner. Renaissance astrologers predicted everything from the course of the future of humankind to the risks of a single investment, or even the weather. They analyzed the bodies and characters of countless clients, from rulers to criminals, and enjoyed widespread respect and patronage. This book traces Cardano's contentious career from his first astrological pamphlet through his rise to high-level consulting and his remarkable autobiographical works. Delving into astrological principles and practices, Grafton shows how Cardano and his contemporaries adapted the ancient art for publication and marketing in a new era of print media and changing science. He maps the context of market and human forces that shaped Cardano's practices--and the maneuvering that kept him at the top of a world rife with patronage, politics, and vengeful rivals. Cardano's astrology, argues Grafton, was a profoundly empirical and highly influential art, one that was integral to the attempts of sixteenth-century scholars to understand their universe and themselves.*

*The Quantum Astrologer's Handbook*

*How, Why, Where, and When Humankind Has Gotten Merry from the Stone Age to the Present*

*Where Real Science Ends... and Pseudoscience Begins*

*Aristotle*



*Astrology for All*

*The Human Journey from Living in Trees to Understanding the Cosmos*

*11 Discoveries Taking Science by Surprise*

*The Art of More*

The most renowned, complete course in astrology ever to appear, the Alan Leo Astrologer's Library is the undisputed source for self-instruction in astrology. Here is the master astrologer's easy to follow method for chart delineation and interpretation—a must for the beginner and an essential reference for the advanced astrologer.

The atom. The Big Bang. DNA. Natural selection. All are ideas that have revolutionized science—and all were dismissed out of hand when they first appeared. The surprises haven't stopped in recent years, and in *At the Edge of Uncertainty*, bestselling author Michael Brooks investigates the new wave of radical insights that are shaping the future of scientific discovery. Brooks takes us to the extreme frontiers of what we understand about the world. He journeys from the observations that might rewrite our story of how the cosmos came to be, through the novel biology behind our will to live, and on to the physiological root of consciousness. Along the way, he examines how it's time to redress the gender imbalance in clinical trials, explores how merging humans with other species might provide a solution to the shortage of organ donors, and finds out whether the universe really is like a computer or if the flow of time is a mere illusion.

A cutting-edge guide to quantum trading Original and thought-provoking, *Quantum Trading* presents a compelling new way to look at technical analysis and will help you use the proven principles of modern physics to forecast financial markets. In it, author Fabio Oreste shows how both the theory of relativity and quantum physics is required to makes sense of price behavior and forecast intermediate and long-term tops and bottoms. He relates his work to that of legendary trader W.D. Gann and reveals how Gann's somewhat esoteric theories are consistent with his applications of Einstein's theory of relativity and quantum theory to price behavior. Applies concepts from modern science to financial market forecasting Shows how to generate support/resistance areas and identify potential market turning points Addresses how non-linear approaches to trading can be used to both understand and forecast market prices While no trading approach is perfect, the techniques found within these pages have enabled the author to achieve a very attractive annual return since 2002. See what his insights can do for you.

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When life lets us down, there's only one reason: it's all in our heads! We are what we affirm, positive and negative. Quantum Affirmations offers an integrative approach to manifesting the love, happiness, prosperity, and success you want in your life. Renowned psychic and bestselling author Monte Farber teaches readers how to visualize and create the future they desire with simple and fun techniques to tunnel through any and all obstacles. Quantum Affirmations is the revolutionary new method for harnessing your mind's power based on quantum physics. Farber has researched intriguing scientific principles and their complementary metaphysical laws that support that affirmations work. In Quantum Affirmations, he applied those principles to formulate a simple 5-step process that anyone can use to create the future they want. Farber includes in-depth interviews with people he has guided step-by-step through the process, and shows readers how to create their own Quantum Affirmations. When the world seems to be falling apart and things are getting out of control, this book offers an easy-to-use tool to take matters into your own hands.

'This is about gob-smacking science at the far end of reason ... Take it nice and easy and savour the experience of your mind being blown without recourse to hallucinogens' Nicholas Lezard, Guardian For most people, quantum theory is a byword for mysterious, impenetrable science. And yet for many years it was equally baffling for scientists themselves. In this magisterial book, Manjit Kumar gives a dramatic and superbly-written history of this fundamental scientific revolution, and the divisive debate at its core. Quantum theory looks at the very building blocks of our world, the particles and processes without which it could not exist. Yet for 60 years most physicists believed that quantum theory denied the very existence of reality itself. In this tour de force of science history, Manjit Kumar shows how the golden age of physics ignited the greatest intellectual debate of the twentieth century. Quantum theory is weird. In 1905, Albert Einstein suggested that light was a particle, not a wave, defying a century of experiments. Werner Heisenberg's uncertainty principle and Erwin Schrodinger's famous dead-and-alive cat are similarly strange. As Niels Bohr said, if you weren't shocked by quantum theory, you didn't really understand it. While "Quantum" sets the science in the context of the great upheavals of the modern age, Kumar's centrepiece is the conflict between Einstein and Bohr over the nature of reality and the soul of science. 'Bohr brainwashed a whole generation of physicists into believing that the problem had been solved', lamented the Nobel Prize-winning physicist Murray Gell-Mann. But in "Quantum", Kumar brings Einstein back to the centre of the

quantum debate. "Quantum" is the essential read for anyone fascinated by this complex and thrilling story and by the band of brilliant men at its heart.

13 Things That Don't Make Sense

Physics of the Soul

When Math Goes Wrong in the Real World

How a Mathematical Duel Inflamed Renaissance Italy and Uncovered the Cubic Equation

The Hidden Life of Paul Dirac, Mystic of the Atom

Postcolonial Astrology

A Scheme of Heaven: The History of Astrology and the Search for our Destiny in Data

The Key to Your Own Nativity

***Paul Dirac was among the great scientific geniuses of the modern age. One of the discoverers of quantum mechanics, the most revolutionary theory of the past century, his contributions had a unique insight, eloquence, clarity, and mathematical power. His prediction of antimatter was one of the greatest triumphs in the history of physics. One of Einstein's most admired colleagues, Dirac was in 1933 the youngest theoretician ever to win the Nobel Prize in physics. Dirac's personality is legendary. He was an extraordinarily reserved loner, relentlessly literal-minded and appeared to have no empathy with most people. Yet he was a family man and was intensely loyal to his friends. His tastes in the arts ranged from Beethoven to Cher, from Rembrandt to Mickey Mouse. Based on previously undiscovered archives, The Strangest Man reveals the many facets of Dirac's brilliantly original mind. A compelling human story, The Strangest Man also depicts a spectacularly exciting era in scientific history.***

***Does the universe embody beautiful ideas? Artists as well as scientists throughout human history have pondered this "beautiful question." With Nobel laureate Frank Wilczek as your guide, embark on a voyage of related discoveries, from Plato and Pythagoras up to the present. Wilczek's groundbreaking work in quantum physics was inspired by his intuition to look for a deeper order of beauty in nature. This is the deep logic of the universe—and it is no accident that it is also at the heart of what we find aesthetically pleasing and inspiring. Wilczek is hardly alone among great scientists in charting his course using beauty as his compass. As he reveals in A Beautiful Question, this has been the heart of scientific pursuit from Pythagoras and the ancient belief in the music of the spheres to Galileo, Newton, Maxwell, Einstein, and into the deep waters of twentieth-century physics. Wilczek brings us right to the edge of knowledge today, where the core insights of even the craziest quantum ideas***

***apply principles we all understand. The equations for atoms and light are almost the same ones that govern musical instruments and sound; the subatomic particles that are responsible for most of our mass are determined by simple geometric symmetries. Gorgeously illustrated, A Beautiful Question is a mind-shifting book that braids the age-old quest for beauty and the age-old quest for truth into a thrilling synthesis. It is a dazzling and important work from one of our best thinkers, whose humor and infectious sense of wonder animate every page. Yes: The world is a work of art, and its deepest truths are ones we already feel, as if they were somehow written in our souls.***

***Seeks to demonstrate the existence of a direct connection between the planetary movements and human history, and examines such ancient and modern events as the French Revolution and September 11th.***

***This is a landmark in science writing that resurrects from the vaults of neglect the polymath Jerome Cardano, a Milanese of the sixteenth century. Who is Jerome Cardano? A gambler and blasphemer, inventor and schemer, plagued by demons and anxieties, astrologer to kings, emperors, and popes. This stubborn and unworldly man was the son of a lawyer and a brothel keeper, but also a gifted physician and the unacknowledged discoverer of the mathematical foundations of quantum physics. The Quantum Astrologer's Handbook, like Jerome, has multiple occupations: it is at once a biography, a history of science, an explanation of quantum theory, and an engrossing story which is truly original in its style and, in the manner of the modernists, embodies in its very form its theories about the world. The Quantum Astrologer's Handbook is a science book with the panache of a novel, a work of and about genius.***

***Can We Travel Through Time? addresses 20 of the most fundamental and frequently asked questions in physics. What is the God particle? Does chaos theory spell disaster? Am I unique in the universe? What is light? Each 3,000 word essay examines these eternally perplexing questions in a way that is comprehensible to everyone, providing the ultimate guide to understanding the very nature of the world we live in.***

***A Short History of Drunkenness***

***Comparing Creativity in Science and Art***

***The Upright Thinkers***

***Techniques for Reclaiming Your Sacred Power***

***A History of the Renaissance Mathematics That Birthed Imaginary Numbers, Probability, and the New Physics of the Universe***

## ***The Poetry and Music of Science***

### ***The Science of Plant Color***

*An illuminating look at the surprising history and science of astrology, civilization's first system of algorithms, from Babylon to the present day. Humans are pattern-matching creatures, and astrology is the universe's grandest pattern-matching game. In this refreshing work of history and analysis, data scientist Alexander Boxer examines classical texts on astrology to expose its underlying scientific and mathematical framework. Astrology, he argues, was the ancient world's most ambitious applied mathematics problem, a monumental data-analysis enterprise sustained by some of history's most brilliant minds, from Ptolemy to al-Kindi to Kepler. Thousands of years ago, astrologers became the first to stumble upon the powerful storytelling possibilities inherent in numerical data. To correlate the configurations of the cosmos with our day-to-day lives, astrologers relied upon a "scheme of heaven," or horoscope, showing the precise configuration of the planets at a particular instant in time as viewed from a particular place on Earth. Although recognized as pseudoscience today, horoscopes were once considered a cutting-edge scientific tool. Boxer teaches us how to read these esoteric charts—and appreciate the complex astronomical calculations needed to generate them—by diagramming how the heavens appeared at important moments in astrology's history, from the assassination of Julius Caesar as viewed from Rome to the Apollo 11 lunar landing as seen from the surface of the Moon. He then puts these horoscopes to the test using modern data sets and statistical science, arguing that today's data scientists do work similar to astrologers of yore. By looking back at the algorithms of ancient astrology, he suggests, we can better recognize the patterns that are timeless characteristics of our own pattern-matching tendencies. At once critical, rigorous, and far ranging, A Scheme of Heaven recontextualizes astrology as a vast, technological project—spanning continents and centuries—that foreshadowed our data-driven world today.*

*Neil deGrasse Tyson's #1 New York Times best-selling guide to the cosmos, adapted for young readers. From the basics of physics to big questions about the nature of space and time, celebrated astrophysicist and science communicator Neil deGrasse Tyson breaks down the mysteries of the cosmos into bite-sized pieces. Astrophysics for Young People in a Hurry describes the fundamental rules and unknowns of our universe clearly—and with Tyson's characteristic wit, there's a lot of fun thrown in, too. This adaptation by Gregory Mone includes full-color photos, infographics, and extra explanations to make even the*

*trickiest concepts accessible. Building on the wonder inspired by outer space, Astrophysics for Young People in a Hurry introduces an exciting field and the principles of scientific inquiry to young readers. 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.*

*Tapping into the political power of magic and astrology for social, community, and personal transformation. In a cross-cultural approach to understanding astrology as a magical language, Alice Sparkly Kat unmaskes the political power of astrology, showing how it can be channeled as a force for collective healing and liberation. Too often, magic and astrology are divorced from their potency and cultural contexts: co-opted by neoliberalism, used as a force of oppression, or distilled beyond recognition into applications that belie their individual and collective power. By looking at the symbolic and etymological histories of the sun, moon, Saturn, Venus, Mercury, Mars, and Jupiter, we can trace and understand the politics of magic--and challenge our own practices, interrogate our truths, and reshape our institutions to build better frameworks for communities of care. Fearless, radical, and fresh, Sparkly Kat's Postcolonial Astrology ushers in a new wave of astrology revival, refusing to apologize for its magickism and connecting its power to the spirituality and politics we need now. Intersectional,*

*inclusive, and geared towards queer and POC communities, it uses our historical and collective constructs of the planets, sun, and moon to re-chart our subconscious history, redefine the body in the world, and assert our politics of the personal, in astrology and all things.*

*#1 INTERNATIONAL BESTSELLER AN ADAM SAVAGE BOOK CLUB PICK The book-length answer to anyone who ever put their hand up in math class and asked, "When am I ever going to use this in the real world?" "Fun, informative, and relentlessly entertaining, Humble Pi is a charming and very readable guide to some of humanity's all-time greatest miscalculations—that also gives you permission to feel a little better about some of your own mistakes." —Ryan North, author of How to Invent Everything Our whole world is built on math, from the code running a website to the equations enabling the design of skyscrapers and bridges. Most of the time this math works quietly behind the scenes . . . until it doesn't. All sorts of seemingly innocuous mathematical mistakes can have significant consequences. Math is easy to ignore until a misplaced decimal point upends the stock market, a unit conversion error causes a plane to crash, or someone divides by zero and stalls a battleship in the middle of the ocean. Exploring and explaining a litany of glitches, near misses, and mathematical mishaps involving the internet, big data, elections, street signs, lotteries, the Roman Empire, and an Olympic team, Matt Parker uncovers the bizarre ways math trips us up, and what this reveals about its essential place in our world. Getting it wrong has never been more fun.*

*Using Principles of Modern Physics to Forecast the Financial Markets*

*The Secret Anarchy of Science*

*Einstein, Bohr and the Great Debate About the Nature of Reality*

*The TransHuman Code*

*The Strangest Man*

*The Black Hole Book*

*Quantum Astrologer's Handbook The*

*My Quest for the Ultimate Nature of Reality*

***Get the straight, scientific story on things like astrology, ghosts, spontaneous human combustion, psychic surgery, and ESP. You hear about these fantastic happenings every day on television and in the supermarket tabloids. Is any of this true or are they making it all up? While many people tune in just for laughs, plenty of readers believe their outrageous claims - often because they simply don't have a clear notion of what science really is. So how do you figure out what constitutes real science and what is***

*nonsense? Quantum Leaps in the Wrong Direction carefully deconstructs five examples of pseudoscience - UFOs, out-of-body experiences, astrology, creationism, and ESP - and gives easy recipes to test other dubious notions so that you can tell what lies in the realm of real science and what more properly deserves the tag of pseudoscience. This second edition of Quantum Leaps in the Wrong Direction will include a brand new chapter on alternative medicine, up-to-date links for reliable skeptical websites, organizations and meetings, and a fully updated additional reading section.*

*A Humancentric Approach to a Technological Innovation THIS IS NOT SIMPLY A BOOK ABOUT TECHNOLOGY. IT IS A BOOK ABOUT THE INCREASING ROLE HUMANITY MUST PLAY DURING THIS TECHNOLOGICAL REVOLUTION IN ORDER TO THRIVE, NOT JUST SURVIVE. ? In The transHuman Code, authors Carlos Moreira and David Fergusson ask, "Are we building a better future for humanity with the help of magnificent technology or could we instead be building a future with better technology at the expense of humanity?" In proclaiming the obvious, that the human is and will always be the greatest and most advanced technology the world has ever known, the authors ask, "Doesn't it then make the most sense to place the understanding, improvement, and utilization of humanity as today's highest priority?" The transHuman Code is a book of conversations about how we employ the power of technology to script the best future possible. By introducing you to some of the world's most important innovators and dynamic developments occurring today, giving you a clearer understanding of their implications and then sparking the conversations that need to happen as a result, the hope is that together we will develop a transHuman code that will allow us to remain both the apex and axis of all technological progress from here forward. How we do this today is new territory. Dynamic innovative opportunities are here, or very near, for the taking. Which ones should we pursue and why? The transHuman Code introduces, through an address of the core elements of our life ecosystem, the discussions we must have. Together, both readers and contributors will form collective, proactive answers in this interactive process. You are invited to join Moreira and Fergusson, through this groundbreaking book, to begin this important work together.*

*From the internationally bestselling author of The Etymologicon, a lively and fascinating exploration of how, throughout history, each civilization has found a way to celebrate, or to control, the eternal human drive to get sloshed "An entertaining bar hop through the past 10,000 years."—The New York Times Book Review Almost every culture on earth has drink, and where there's drink there's drunkenness. But in every age and in every place drunkenness is a little bit different. It can be religious, it can be sexual, it can be the duty of kings or the relief of peasants. It can be an offering to the ancestors, or a way of marking the end of a day's work. It can send you to sleep, or send you into battle. Making stops all over the world, A Short History of Drunkenness traces humankind's love affair with booze from our primate ancestors through to the twentieth century, answering every possible question along the way: What did people drink? How much? Who did the drinking? Of the many possible reasons, why? On the way, learn about the Neolithic Shamans, who drank to communicate with the spirit world (no pun intended), marvel at how Greeks got giddy and Sumerians got sauced, and find out how bars in the Wild West were never quite like in the movies. This is a history of the world at its inebriated best.*

*Max Tegmark leads us on an astonishing journey through past, present and future, and through the physics, astronomy and mathematics that are the foundation of his work, most particularly his hypothesis that our physical reality is a mathematical structure and his theory of the ultimate multiverse. In a dazzling combination of both popular and groundbreaking science, he not*



*only helps us grasp his often mind-boggling theories, but he also shares with us some of the often surprising triumphs and disappointments that have shaped his life as a scientist. Fascinating from first to last—this is a book that has already prompted the attention and admiration of some of the most prominent scientists and mathematicians.*

*Quantum Astrologer's Handbook The*

*A Beautiful Question*

*The 20 Big Questions in Physics*

*His Life and School*

*Cardano's Cosmos*

*Every Life Is on Fire*

*Humble Pi*

*Black Hole Blues and Other Songs from Outer Space*

*How Thermodynamics Explains the Origins of Living Things*

The authoritative story of the headline-making discovery of gravitational waves—by an eminent theoretical astrophysicist and award-winning writer. From the author of *How the Universe Got Its Spots* and *A Madman Dreams of Turing Machines*, the epic story of the scientific campaign to record the soundtrack of our universe. Black holes are dark. That is their essence. When black holes collide, they will do so unilluminated. Yet the black hole collision is an event more powerful than any since the origin of the universe. The profusion of energy will emanate as waves in the shape of spacetime: gravitational waves. No telescope will ever record the event; instead, the only evidence would be the sound of spacetime ringing. In 1916, Einstein predicted the existence of gravitational waves, his top priority after he proposed his theory of curved spacetime. One century later, we are recording the first sounds from space, the soundtrack to accompany astronomy's silent movie. In *Black Hole Blues and Other Songs from Outer Space*, Janna Levin recounts the fascinating story of the obsessions, the aspirations, and the trials of the scientists who embarked on an arduous, fifty-year endeavor to capture these elusive waves. An experimental ambition that began as an amusing thought experiment, a mad idea, became the object of fixation for the original architects—Rai Weiss, Kip Thorne, and Ron Drever. Striving to make the ambition a reality, the original three gradually accumulated an international team of hundreds. As this book was written, two massive instruments of remarkably delicate sensitivity were brought to advanced capability. As the book draws to a close, five decades after the experimental ambition began, the team races to intercept a wisp of a sound with two colossal machines, hoping to succeed in time for the centenary of Einstein's most radical idea. Janna Levin's absorbing account of the surprises, disappointments, achievements, and risks in this unfolding story offers a portrait of modern science that is unlike anything we've seen before.

*Nature's Palette*

*Our Mathematical Universe*

*The Most Intriguing Scientific Mysteries of Our Time*

*how numbers created civilisation*

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Imaginary Numbers, Probability, And The New Physics Of The Universe

**The Quantum Book of Living, Dying, Reincarnation, and Immortality**

**Cosmos and Psyche**

**Llewellyn's Complete Book of Astrology**