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The First Scientist: Anaximander And His Legacy

This book is a sequel to Heaven and Earth in Ancient Greek Cosmology (Springer 2011). With the help of many pictures, the reader is introduced into the way of thinking of ancient believers in a flat earth. The first part offers new interpretations of several Presocratic cosmologists and a critical discussion of Aristotle's proofs that the earth is spherical. The second part explains and discusses the ancient Chinese system called gai

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tian. The last chapter shows that, inadvertently, ancient arguments and ideas return in the curious modern flat earth cosmologies.

Aladdin's Lamp is the fascinating story of how ancient Greek philosophy and science began in the sixth century B.C. and, during the next millennium, spread across the Greco-Roman world, producing the remarkable discoveries and theories of Thales, Pythagoras, Hippocrates, Plato, Aristotle, Euclid, Archimedes, Galen, Ptolemy, and many others. John Freely explains how, as the Dark Ages shrouded Europe, scholars in medieval Baghdad

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translated the works of these Greek thinkers into Arabic, spreading their ideas throughout the Islamic world from Central Asia to Spain, with many Muslim scientists, most notably Avicenna, Alhazen, and Averroës, adding their own interpretations to the philosophy and science they had inherited. Freely goes on to show how, beginning in the twelfth century, these texts by Islamic scholars were then translated from Arabic into Latin, sparking the emergence of modern science at the dawn of the Renaissance, which climaxed in the Scientific Revolution of the seventeenth century.

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A 2014 Gallup Poll indicated that 26 percent of Americans believe that humans came into existence less than 10,000 years ago, with a much larger 37 percent believing the world was created in six 24-hour days. Those percentages represent around 83 million and 118 million people respectively, suggesting these to be ideas that resonate with a large swath of the population. Given the prevalence of such thinking the question looms, "Is it possible that so many people could be wrong, or is science simply mistaken about some of these matters?" This book is very much about the importance

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process plays in the conclusions that are reachable, with Jan Long proposing that process itself can answer such questions, doing so in a way that offers credibility. He proposes that process entails a set of well-established rules for how knowledge is acquired, and these can help guide the formation of a sacred construct about beginnings. In the final analysis it is a process that seeks to replace dogmatic thinking with humble and tentative expressions about that which is knowable about the many mysteries of reality that convey to sentient beings,

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awe and wonder.

'A joy of a book - enriching, illuminating, eclectic and far from a conventional science read' Richard Webb, *New Scientist Books of the Year* 'Carlo Rovelli's imaginative rigour, his lively humour and his beautiful writing are inspiring' Erica Wagner One of the most inspiring thinkers of our age, the bestselling author of *Seven Brief Lessons on Physics* transforms the way we think about the world with his reflections on science, history and humanity In this collection of writings, the logbook of an intelligence always on the move, Carlo

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Rovelli follows his curiosity and invites us on a voyage through science, history, philosophy and politics. Written with his usual clarity and wit, these pieces range widely across time and space: from Newton's alchemy to Einstein's mistakes, from Nabokov's butterflies to Dante's cosmology, from travels in Africa to the consciousness of an octopus, from mind-altering psychedelic substances to the meaning of atheism. Charming, pithy and elegant, this book is the perfect gateway to the universe of one of the most influential scientists of our age.

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*The Singular Universe and
the Reality of Time
Reality Is Not What It Seems
What is Time? What is Space?
The Journey to Quantum
Gravity
When Religious Faith
Collides with Science*

*Named a Best Book of 2021 by
the Financial Times and a Best
Science Book of 2021 by The
Guardian “Rovelli is a genius
and an amazing communicator...
This is the place where science
comes to life.” ?Neil Gaiman
“One of the warmest, most
elegant and most lucid
interpreters to the laity of the
dazzling enigmas of his*

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discipline...[a] momentous book”
?John Banville, The Wall Street Journal A startling new look at quantum theory, from the New York Times bestselling author of *Seven Brief Lessons on Physics* and *The Order of Time*. One of the world's most renowned theoretical physicists, Carlo Rovelli has entranced millions of readers with his singular perspective on the cosmos. In *Helgoland*, he examines the enduring enigma of quantum theory. The quantum world Rovelli describes is as beautiful as it is unnerving. *Helgoland* is a treeless island in the North Sea where the twenty-three-year-old

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Werner Heisenberg made the crucial breakthrough for the creation of quantum mechanics, setting off a century of scientific revolution. Full of alarming ideas (ghost waves, distant objects that seem to be magically connected, cats that appear both dead and alive), quantum physics has led to countless discoveries and technological advancements. Today our understanding of the world is based on this theory, yet it is still profoundly mysterious. As scientists and philosophers continue to fiercely debate the meaning of the theory, Rovelli argues that its most unsettling

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contradictions can be explained by seeing the world as fundamentally made of relationships rather than substances. We and everything around us exist only in our interactions with one another. This bold idea suggests new directions for thinking about the structure of reality and even the nature of consciousness. Rovelli makes learning about quantum mechanics an almost psychedelic experience. Shifting our perspective once again, he takes us on a riveting journey through the universe so we can better comprehend our place in it.

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Here is an idea that just might save the world. It is that science, properly understood, provides us with the methodological key to the salvation of humanity. A version of this idea can be found in the works of Karl Popper. Famously, Popper argued that science cannot verify theories but can only refute them, and this is how science makes progress. Scientists are forced to think up something better, and it is this, according to Popper, that drives science forward. But Nicholas Maxwell finds a flaw in this line of argument. Physicists only ever accept theories that are unified – theories that depict

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the same laws applying to the range of phenomena to which the theory applies – even though many other empirically more successful disunified theories are always available. This means that science makes a questionable assumption about the universe, namely that all disunified theories are false. Without some such presupposition as this, the whole empirical method of science breaks down. By proposing a new conception of scientific methodology, which can be applied to all worthwhile human endeavours with problematic aims, Maxwell argues for a

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revolution in academic inquiry to help humanity make progress towards a better, more civilized and enlightened world.

Heisenberg explains the central ideas of the quantum revolution, and his uncertainty principle. He reveals how words can lose their meaning in the world of relativity and quantum physics, with philosophical implications for the nature of reality.

In To Explain the World, pre-eminent theoretical physicist Steven Weinberg offers a rich and irreverent history of science from a unique perspective - that of a scientist. Moving from ancient Miletus to medieval

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Baghdad to Oxford, and from the Museum of Alexandria to the Royal Society of London, he shows that the scientists of the past not only did not understand what we understand about the world - they did not understand what there is to understand. Yet eventually, through the struggle to solve such mysteries as the backward movement of the planets and the rise and fall of tides, the modern discipline of science emerged.

Plato's Pigs and Other Ruminations

The First Scientist

Asimov's Biographical

Encyclopedia of Science and

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Technology

*The Lives and Achievements of
1195 Great Scientists from
Ancient Times to the Present,
Chronologically Arranged
An Elementary Introduction to
Quantum Gravity and Spinfoam
Theory*

Science before Socrates

*From the PREFACE. THIS
translation was made at the
suggestion of my friend, Dr.
W. R. Newbold, Professor of
Greek Philosophy at the
University of Pennsylvania,
in the hope of interesting
here and there a student of
thought or a lover of
poetry. The introduction and
notes are intended merely to*

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illustrate the text: they touch only incidentally on the doxographical material and give thus by no means a complete account of all it is possible to know about Empedocles's philosophy. My indebtedness to the critics is frequently attested in the references, but I have in all points tried to exercise an independent judgment. Most citations from works not accessible in English are given in translation.

Discusses the life and work of the seven Greek thinkers considered to be the first true scientists of the western world. Included are Democritus, Plato,

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*Aristotle, Theophrastus,
Archimedes, Ptolemy, and
Galen.*

*A pioneering, original work
of synthesis that traces
modern ideas about systems
science and sustainable
living back to Classical
antiquity.*

*Each entry gives short to
lengthy biographical
information. Subject and
name index.*

*From the Crisis in Physics
to the Future of the
Universe*

*Making Sense of the Quantum
Revolution*

*The Cambridge History of
Science: Volume 1, Ancient
Science*

Time Reborn

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Thales to Aristotle

C.J. the Americas

'If I saw further than others it is because I was standing on the shoulders of giants.' -

Sir Isaac Newton This stylish jacketed

hardback introduces 100 of these giants of scientific discovery:

the men and women who,

often in the face of extreme skepticism or

worse, have striven and succeeded in pushing

back the boundaries of human knowledge. Ranging

across the spectrum of

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scientific endeavor, from the cosmology of Copernicus and Galileo, to the medical revolutions of Hippocrates and Galen, it includes the fields of physics, biology, chemistry, and genetics. Spanning from the ancient world to the 20th century, these figures include: • Aristotle • Leonardo di Vinci • Benjamin Franklin • Isaac Newton • Marie Curie • Stephen Hawking Including brilliant illustrations,

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fact boxes of key information, and a chronology of important dates, 100 Great Scientists Who Changed the World provides riveting insight into the men and women who shaped the world today. "Rovelli restores Anaximander to his place in the history of science by carefully presenting his theories from what is known to us and examining them in their historical and philosophical contexts."--Page [2] of

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This volume in the highly respected Cambridge History of Science series is devoted to the history of science, medicine and mathematics of the Old World in antiquity. Organized by topic and culture, its essays by distinguished scholars offer the most comprehensive and up-to-date history of ancient science currently available. Together, they reveal the diversity of goals,

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contexts, and accomplishments in the study of nature in Mesopotamia, Egypt, Greece, Rome, China, and India. Intended to provide a balanced and inclusive treatment of the ancient world, contributors consider scientific, medical and mathematical learning in the cultures associated with the ancient world.

THE PHENOMENAL BESTSELLER 'There's a book I've been carrying around like a small Bible, Seven Brief

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Lessons on Physics' -
Benedict Cumberbatch
Everything you need to
know about modern
physics, the universe
and your place in the
world in seven
enlightening lessons
These seven short
lessons guide us, with
simplicity and clarity,
through the scientific
revolution that shook
physics in the twentieth
century and still
continues to shake us
today. In this beautiful
and mind-bending
introduction to modern

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physics, Carlo Rovelli explains Einstein's theory of general relativity, quantum mechanics, black holes, the complex architecture of the universe, elementary particles, gravity, and the nature of the mind. In under eighty pages, readers will understand the most transformative scientific discoveries of the twentieth century and what they mean for us. Not since Richard Feynman's celebrated best-seller *Six Easy*

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Pieces has physics been
so vividly,
intelligently and
entertainingly revealed.

A Navigational Guide
When the Earth Was Flat
Anaximander and His
Legacy

Let There Be Science
Scientists of Ancient
Greece

Sophie's World

In Science before Socrates, Daniel
W. Graham argues against the belief
that the Presocratic philosophers did
not produce any empirical science
and that the first major Greek
science, astronomy, did not develop
until at least the time of Plato.

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Instead, Graham proposes that the advances made by Presocratic philosophers in the study of astronomy deserve to be considered as scientific contributions.

"Through a series of examples drawn from biology, climate science, geology, environmental science, and other disciplines, the chapters in this book demystify the process of science, and the work that scientists do. The authors highlight the many methods used in science and the common characteristics that unite them all as "science". The examples illustrate that science is a human endeavor, and research is enriched and enlivened by the diversity of scientists themselves.

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This book is an excellent companion to any college-level introductory science course, emphasizing how we know what we know. It will also serve as an invaluable resource for undergraduate students preparing to do research for the first time or for anyone who might be interested in learning more about the process of science and scientific research. --

Book blurb.

Do you want more free books like this? Download our app for free at <https://www.QuickRead.com/App> and get access to hundreds of free book and audiobook summaries.

Take a journey through history that leads to today's theory of quantum gravity and the modern physicist's

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view of the universe. Do time and space exist? What about reality, does it exist? These are the questions that theoretical physicist Carlo Rovelli has spent his life exploring. Beginning with the scholars of ancient Greece, Rovelli takes us on a journey throughout history and shows us how our understanding of reality has changed over time. Digging into the discoveries and theories made by Democritus, Isaac Newton, Albert Einstein, and even his own work in quantum gravity, Rovelli seeks to unify quantum mechanics and general relativity. Through *Reality is Not What it Seems*, you'll explore a world where space is made

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up of tiny grains, where time disappears, and where a large portion of the universe has yet to be discovered.

From the best-selling author of *Seven Brief Lessons on Physics* comes a new book about the mind-bending nature of the universe. What are time and space made of? Where does matter come from? And what exactly is reality? Scientist Carlo Rovelli has spent his life exploring these questions and pushing the boundaries of what we know. Here he explains how our image of the world has changed throughout centuries. From Aristotle to Albert Einstein, Michael Faraday to the Higgs boson, he takes us on a

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wondrous journey to show us that beyond our ever-changing idea of reality is a whole new world that has yet to be discovered.

Science Verse

The Process of Science, Revised Edition

General Relativity: The Essentials
Anaximander

The Fragments of Empedocles

Parmenides, Anaxagoras, and the
New Astronomy

Anaximander, the sixth-century BCE philosopher of Miletus, is often credited as being the instigator of both science and philosophy. The first recorded philosopher to posit the idea of the boundless cosmos, he was

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also the first to attempt to explain the origins of the world and humankind in rational terms. Anaximander's philosophy encompasses theories of justice, cosmogony, geometry, cosmology, zoology and meteorology. Anaximander: A Re-assessment draws together these wide-ranging threads into a single, coherent picture of the man, his worldview and his legacy to the history of thought. Arguing that Anaximander's statements are both apodeictic and based on observation of the world around him, Andrew Gregory examines how Anaximander's theories can all be construed in such a way that

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they are consistent with and supportive of each other. This includes the tenet that the philosophical elements of Anaximander's thought (his account of the apeiron, the extant fragment) can be harmonised to support his views on the natural world. The work further explores how these theories relate to early Greek thought and in particular conceptions of theogony and meterology in Hesiod and Homer.

A comprehensible introduction to the most fascinating research in theoretical physics: advanced quantum gravity. Ideal for researchers and graduate

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students.

When the teacher tells his class that they can hear the poetry of science in everything, a student is struck with a curse and begins hearing nothing but science verses that sound very much like some well-known poems.

Why is it that science has consistently thrived wherever the Christian faith can be found?

Why is it that so many great scientists - past and present - attribute their motivation and their discoveries, at least partially, to their Christian beliefs? Why are the age-old writings of the Bible so full of questions about natural phenomena? And, perhaps most

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importantly of all, why is all this virtually unknown to the general public? Too often, it would seem, science has been presented to the outside world as a robotic, detached, unemotional enterprise. Too often, Christianity is dismissed as being an ancient superstition. In reality, neither is the case. Science is a deeply human activity, and Christianity is deeply reasonable. Perhaps this is why, from ancient times right up to today, many individuals have been profoundly committed to both - and have helped us to understand more and more about the extraordinary world that we live in. As authors Tom

McLeish and David Hutchings examine the story of science, and look at the part that Christianity has played, they uncover a powerful underlying reason for doing science in the first place. In example after example, ranging from 4000 BC to the present day, they show that thinking with a Christian worldview has been intimately involved with, and sometimes even directly responsible for, some of the biggest leaps forward ever made. Ultimately, they portray a biblical God who loves Science - and a Science that truly needs God.
Anaximander on Generation and Destruction

***100 Great Scientists Who
Changed the World
The Territories of Science and
Religion
Seven Brief Lessons on Physics
Covariant Loop Quantum Gravity
There Are Places in the World
Where Rules Are Less Important
Than Kindness***

A theoretical physicist and author of the controversial best-seller *The Trouble with Physics* describes his new approach for thinking about the reality of time and explains his theory about the laws of physics not being timeless but rather capable of evolving. Translated into English for the

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first time, an award-winning theoretical physicist discusses the theories of Anaximander, the sixth-century BC Greek philosopher, and examines the influence he had on scientific thinking in a historical and philosophical context.

Where Was God Hijacked? Violence & Human Rights in Islam, Judaism, & Christianity is a non-fiction account of how monotheistic religions throughout history have appropriated the concept of a perfect God to justify unethical actions. The book explores the religious justification for

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unethical actions performed by adherents of Judaism, Christianity, and Islam, and examines unethical instructions within the sacred scriptures of these religions, particularly in the Old Testament, the Quran, and in the actions of Muhammad as recorded in the Hadith.

A straightforward introduction to General Relativity, explaining the physical, philosophical and mathematical ideas it is built on.

Aladdin's Lamp

Physics and Philosophy

Zhurnal ?ksperimental?no? i

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teoretichesko? fiziki

Why God Loves Science, and
Science Needs God

Science in the Ancient World

Quantum Gravity

The First

Scientist Anaximander and
His Legacy Westholme Pub
Llc

'A dazzling book ... the
new Stephen Hawking'

Sunday Times The

bestselling author of

Seven Brief Lessons on

Physics takes us on an

enchanting, consoling

journey to discover the

meaning of time 'We are

time. We are this space,

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this clearing opened by the traces of memory inside the connections between our neurons. We are memory. We are nostalgia. We are longing for a future that will not come.' Time is a mystery that does not cease to puzzle us. Philosophers, artists and poets have long explored its meaning while scientists have found that its structure is different from the simple intuition we have of it. From Boltzmann to

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quantum theory, from Einstein to loop quantum gravity, our understanding of time has been undergoing radical transformations. Time flows at a different speed in different places, the past and the future differ far less than we might think, and the very notion of the present evaporates in the vast universe. With his extraordinary charm and sense of wonder, bringing together science, philosophy and

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art, Carlo Rovelli unravels this mystery. Enlightening and consoling, *The Order of Time* shows that to understand ourselves we need to reflect on time -- and to understand time we need to reflect on ourselves. Translated by Simon Carnell and Erica Segre

The international bestseller about life, the universe and everything. When 14-year-old Sophie encounters a mysterious mentor who introduces her to

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philosophy, mysteries
deepen in her own life.
Why does she keep
getting postcards
addressed to another
girl? Who is the other
girl? And who, for that
matter, is Sophie
herself? To solve the
riddle, she uses her new
knowledge of philosophy,
but the truth is far
stranger than she could
have imagined. A
phenomenal worldwide
bestseller, SOPHIE'S
WORLD sets out to draw
teenagers into the world
of Socrates, Descartes,

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Spinoza, Hegel and all the great philosophers. A brilliantly original and fascinating story with many twists and turns, it raises profound questions about the meaning of life and the origin of the universe.

This book offers an innovative analysis of the Greek philosopher Anaximander's work. In particular, it presents a completely new interpretation of the key word Apeiron, or boundless, offering

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readers a deeper understanding of his seminal cosmology and, with it, his unique conception of the origin of the universe.

Anaximander traditionally applied Apeiron to designate the origin of everything.

The authors' investigation of the extant sources shows, however, that this common view misses the mark. They argue that instead of reading Apeiron as a noun, it should be considered an

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adjective, with reference to the term physis (nature), and that the phrase physis apeiros may express the boundless power of nature, responsible for all creation and growth. The authors also offer an interpretation of Anaximander's cosmogony from a biological perspective: each further step in the differentiation of the phenomenal world is a continuation of the original separation of a fertile seed. This new

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reading of the first written account of cosmology stresses the central role of the boundless power of nature. It provides philosophers, researchers, and students with a thought-provoking explanation of this early thinker's conception of generation and destruction in the universe.

The Revolution in Modern Science

To Explain the World

Where Was God Hijacked?

Reality is Not What it

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Seems by Carlo Rovelli
(Summary)

A Re-assessment

The Discovery of Modern
Science

"Marvelous. . . . A wonderful book."--Humana.Mente "Rovelli is the dream author to conduct us on this journey."--Nonfiction.fr "At this point in time, when the prestige of science is at a low and even simple issues like climate change are mired in controversy, Carlo Rovelli gives us a necessary reflection on what science is, and where it comes from. Rovelli is a deeply original thinker, so it is not surprising that he has novel views on the important questions of the nature and origin of science."--Lee

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Smolin, founding member and researcher at the Perimeter Institute for Theoretical Physics and author of *The Trouble with Physics* Winner of the Prix du Livre Haute Maurienne de l'Astronomie Carlo Rovelli, a leading theoretical physicist, uses the figure of Anaximander as the starting point for an examination of scientific thinking itself: its limits, its strengths, its benefits to humankind, and its controversial relationship with religion.

Anaximander, the sixth-century BC Greek philosopher, is often called the first scientist because he was the first to suggest that order in the world was due to natural forces, not supernatural ones. He is the first

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person known to understand that the Earth floats in space; to believe that the sun, the moon, and the stars rotate around it--seven centuries before Ptolemy; to argue that all animals came from the sea and evolved; and to posit that universal laws control all change in the world. Anaximander taught Pythagoras, who would build on Anaximander's scientific theories by applying mathematical laws to natural phenomena. In the award-winning *The First Scientist: Anaximander and His Legacy*, translated here for the first time in English, Rovelli restores Anaximander to his place in the history of science by carefully reconstructing his theories from

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what is known to us and examining them in their historical and philosophical contexts. Rovelli demonstrates that Anaximander's discoveries and theories were decisive influences, putting Western culture on its path toward a scientific revolution. Developing this connection, Rovelli redefines science as a continuous redrawing of our conceptual image of the world. He concludes that scientific thinking--the legacy of Anaximander--is only reliable when it constantly tests the limits of our current knowledge. In this new series leading classical scholars interpret afresh the ancient world for the modern reader. They stress those questions and

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institutions that most concern us today: the interplay between economic factors and politics, the struggle to find a balance between the state and the individual, the role of the intellectual. Most of the books in this series centre on the great focal periods, those of great literature and art: the world of Herodotus and the tragedians, Plato and Aristotle, Cicero and Caesar, Virgil, Horace and Tacitus. This study traces Greek science through the work of the Pythagoreans, the Presocratic natural philosophers, the Hippocratic writers, Plato, the fourth-century B.C. astronomers and Aristotle. G. E. R. Lloyd also investigates the relationships

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between science and philosophy and science and medicine; he discusses the social and economic setting of Greek science; he analyses the motives and incentives of the different groups of writers.

The first A–Z resource to catalog the achievements and legacy of more than four millennia of scientific thought in the ancient world of the Mediterranean and the Near East, providing a complete overview of the physical, chemical, life, medical, and social sciences of the classical world. * A complete bibliography of primary source documents, secondary source biographies, and critical analyses * 50 illustrations including maps,

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portraits of the key scientific figures, and depictions of scientific instruments and phenomena

Quantum gravity is perhaps the most important open problem in fundamental physics. It is the problem of merging quantum mechanics and general relativity, the two great conceptual revolutions in the physics of the twentieth century. The loop and spinfoam approach, presented in this 2004 book, is one of the leading research programs in the field. The first part of the book discusses the reformulation of the basis of classical and quantum Hamiltonian physics required by general relativity. The second part covers the basic technical research

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directions. Appendices include a detailed history of the subject of quantum gravity, hard-to-find mathematical material, and a discussion of some philosophical issues raised by the subject. This fascinating text is ideal for graduate students entering the field, as well as researchers already working in quantum gravity. It will also appeal to philosophers and other scholars interested in the nature of space and time.

Apeiron

Studies in Ancient Greek and Chinese Cosmology

An Encyclopedia

Karl Popper, Science and Enlightenment

Helgoland

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Early Greek Science

Peter Harrison takes what we think we know about science and religion, dismantles it, and puts it back together again in a provocative new way. It is a mistake to assume, as most do, that the activities and achievements that are usually labeled religious and scientific have been more or less enduring features of the cultural landscape of the West. Harrison, by setting out the history of science and religion to see when and where they come into being and to trace their mutations over time reveals how distinctively Western and modern they are. Only in the past few hundred years have religious beliefs and practices been bounded by a common notion and set apart from the secular. And the idea of the natural sciences as discrete activities conducted in isolation from religious

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and moral concerns is even more recent, dating from the nineteenth century. Putting the so-called opposition between religion and science into historical perspective, as Harrison does here for the first time, has profound implications for our understanding of the present and future relations between them. "

Roberto Mangabeira Unger and Lee Smolin argue for a revolution in our cosmological ideas. Ideal for non-scientists, physicists and cosmologists.

Ancient Guides to Living with Nature
The Order of Time