

50 Ideas You Really Need To Know Religion Peter Stanford

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50 Psychology Ideas You Really Need to Know Hachette UK

50 Biology Ideas You Really Need to Know is your guide to the most significant and stimulating questions in the study of life. Why do species evolve? Can characteristics be inherited without DNA? Are all organisms made of cells? What makes us human? This book provides succinct answers to all these questions, and many more, in 50 lucid and engaging essays that cover both classic experiments and the latest research. From the mysteries of sex and sleep, from mass extinction to immunity, **50 Biology Ideas You Really Need to Know** will open your eyes to the fundamental processes that are vital to life on Earth, including how genes control the growth and behaviour of living things, how a body develops from a single cell, and how environmental forces create natural diversity through evolution. Featuring key concepts explained in simple terms, and with clear diagrams and timelines showing major scientific discoveries within their historical context, this book will give you a complete overview of a fascinating subject. Contents include: Evolution, Genes, Homeostasis, Endosymbiosis, Sex, Multicellularity, Nerves, Genetic Drift, Speciation, Convergent Evolution, Pollination, Mimicry, Laws of Inheritance, DNA, Alternative Splicing, Viruses, Epigenetics, Photosynthesis, Cancer, Differentiation, Regeneration, Morphogenesis, Memory, Sleep, Ageing, Consciousness and the Gaia Hypothesis.

Economics Quercus Publishing

Religion: 50 Ideas You Really Need to Know offers a clear path through the conceptual and denominational thickets of global religion. Award-winning religious affairs correspondent Peter Stanford begins with an examination of sacred texts, the divine principle and good and evil, before moving on to a discussion of the different traditions within Christianity, Islam, Judaism and the myriad traditions of the East.

50 Science Ideas You Really Need to Know **50 Ideas You Really Need to Know** series

This latest book in the bestselling '50 Ideas' series is a wonderfully accessible overview of the only place we know of in the universe that is capable of sustaining life. Expert popular science writer Martin Redfern covers all the natural processes of the Earth: climate, ocean currents, air currents, the elements, plate tectonics, fossils, the evolution of life, volcanology, sea levels and the ultimate fate of the Earth. The 50 Ideas featured include: Geological formation; Rock layers; Formation of the atmosphere; Plate tectonics; Continental rifts; Volcanology; Simple life; Multi-cellular life; Snowball Earth; Gondwana and Pangea; Sexual selection; Complex life; The Cambrian revolution; The dinosaurs; Avalonia; The sauropod puzzle; End of the Mesozoic; The Cenozoic recovery; The Great Warming; The 'Great Flood'; The Holocene; Biodiversity and The fate of the Earth.

50 Chemistry Ideas You Really Need to Know Penguin

Who invented zero? Why 60 seconds in a minute? How big is infinity? Where do parallel lines meet? And can a butterfly's wings really cause a storm on the far side of the world? In **50 Maths Ideas You Really Need to Know**, Professor Tony Crilly explains in 50 clear and concise essays the mathematical concepts - ancient and modern, theoretical and practical, everyday and esoteric - that allow us to understand and shape the world around us. Packed with diagrams, examples and anecdotes, this book is the perfect overview of this often daunting but always essential subject. For once, mathematics couldn't be simpler. Contents include: Origins of mathematics, from Egyptian fractions to Roman numerals; Pi and primes, Fibonacci numbers and the golden ratio; What calculus, statistics and algebra can actually do; The very real uses of imaginary numbers; The Big Ideas of relativity, Chaos theory, Fractals, Genetics and hyperspace; The reasoning behind Sudoku and code cracking, Lotteries and gambling, Money management and compound interest; Solving of Fermat's last theorem and the million-dollar question of the Riemann hypothesis.

50 Political Ideas You Really Need to Know Quercus Books

A guide to everything you need and want to know about quantum physics, how our universe works and our existence in it. Quantum physics is the most cutting-edge, important and fascinating area of modern science. We have all heard of Einstein's theory of relativity and Schrodinger's Cat - but do we really understand the mind-bending theories of our universe? In 50 concise chapters, Joanne Baker covers the foundation concepts of quantum physics and moves on to present clear explanations of complex theories and their advanced applications - from string theory to black holes, and quarks to quantum computing. With informative two-colour illustrations alongside key ideas in straightforward, bite-sized chunks, this book will teach you everything you need to know about quantum physics - and challenge the way you understand the world. The ideas explored include: Theory of relativity; Schrödinger's cat; Nuclear forces: fission and fusion; Antimatter; Superconductivity.

50 Philosophy Classics Quercus

Human history--from the empires of the ancient world to the superpowers of the 21st century--has been inextricably shaped by conflict and the weapons that have been used to wage it. The technologies that have produced advanced civilizations have also been harnessed to the grim business of warfare. The trains that carried working people to their first seaside holidays in the 19th century also took millions of young men to war in 1914. Nearly a century later, the computer revolution, which by 2000 had come to dominate almost every aspect of life in advanced societies, had also introduced us to a new fifth dimension of warfare, in which governments jostle brutally in cyberspace. This short history, stretching from the chariot to the Stuxnet virus which disabled Iran's nuclear enrichment programme in 2007, charts some of the most significant weapons, fortifications and tactics that have been developed in the last 2,500 years. Since 1945, the pace of change has been relentless. In the present day, the main battle tank is facing obsolescence as the master of the battlefield, and the introduction of the Unmanned Combat Aerial Vehicle (UCAV) threatens the livelihoods of many of the highly trained establishments of the world's leading air forces. In contrast, the many asymmetric conflicts raging around the globe in countries of the Third World attest to the durability of one of the 20th century's most remarkable weapons, the Kalashnikov assault rifle, developed in the later 1940s and still in service worldwide. This is a scintillating introduction to the world's most enduring phenomenon.

50 Big Ideas You Really Need to Know Quercus

People often complain that in history lessons at school they were taught just a few topics - the Romans, the Tudors, the Nazis - and how they have no idea at all about what happened in between. To remedy this, **World History: 50 Key Milestones You Really Need to Know** offers brief and stimulating outlines of key developments in the history of the world, from the beginning of agriculture 10,000 years ago to the attack on the Twin Towers on 9/11. Each essay is accompanied by a detailed time line of dates and events, and the flavour of the period concerned is brought to life by selected contemporary quotations from figures as diverse as Aristotle, Saladin, Christopher Columbus, Suleiman the Magnificent, Galileo, Voltaire, Thomas Jefferson, Mary Wollstonecraft, Napoleon, Abraham Lincoln and Winston Churchill. In addition, box features throw light on a range of related topics, from Confucianism and the state to Alexander the Great's horse, and from Islamic science to the Enigma code and the atomic bomb.

50 Philosophy Ideas You Really Need to Know Quercus

What will the world look like in 2020, 2030 or even 2100? How will progress in scientific research affect human life in the areas of health and lifestyle, energy and the environment, politics and conflict, space exploration and even the ultimate questions of existence? This book offers an electrifying trip through the wonders - and terrors - awaiting us over the next hundred years. The ideas explored include: Therapeutic cloning; Regenerative medicine; Nanotechnology; Quantum computers; Cyberwarfare; Space colonies; The nature of consciousness; Digital democracy.

50 Ideas You Really Need to Know Quercus

What exactly is a credit crunch? Why do footballers earn so much more than the rest of us? Which country is likely to be the world's leading economy in 10 years' time? And how does economics affect each one of us, every day? In the seventh volume of the successful **50 Ideas** series, Daily Telegraph economics editor Edmund Conway introduces and explains the central ideas of economics in a series of 50 clear and concise essays. Beginning with an exploration of the basic theories, such as Adam Smith's 'invisible hand', and concluding with the latest research into the links between wealth and happiness, he sheds light on all the essential topics needed to understand booms and busts, bulls and bears, and the way the world really works. Packed with real-life examples and quotations

from key thinkers, **50 Economics Ideas** provides a fascinating overview of how economics influences every aspect of our lives, from buying a house to what we had for breakfast this morning.

50 Events You Really Need to Know: History of War Chartwell Books

Chemistry is at the cutting edge of our lives. How does a silicon chip work? How can we harness natural products to combat human disease? And is it possible to create artificial muscles? Providing answers to these questions and many more, **50 Chemistry Ideas You Really Need to Know** is an engaging guide to the world of chemistry.

From the molecules that kick-started life itself to nanotechnology, chemistry offers some fascinating insights into our origins, as well as continuing to revolutionize life as we know it. In 50 short instalments, this accessible book discusses everything from the arguments of the key thinkers to the latest research methods, using timelines to place each theory in context - telling you all you need to know about the most important ideas in chemistry, past and present. Contents include: Thermodynamics, Catalysts, Fermentation, Green Chemistry, Separation, Crystallography, Microfabrication, Computational Chemistry, Chemistry Occurring in Nature, Manmade Solutions: Beer, Plastic, Artificial Muscles and Hydrogen Future.

Fifty Ideas You Really Need to Know Quercus

How different are men and women's brains? Does altruism really exist? Are our minds blank slates at birth? And do dreams reveal our unconscious desires? If you have ever grappled with these concepts, or tried your hand as an amateur psychologist, **50 Psychology Ideas You Really Need to Know** could be just the book for you. Not only providing the answers to these questions and many more, this series of engaging and accessible essays explores each of the central concepts, as well as the arguments of key thinkers. Author Adrian Furnham offers expert and concise introductions to emotional behavior, cognition, mental conditions--from stress to schizophrenia--rationality and personality development, amongst many others. This is a fascinating introduction to psychology for anyone interested in understanding the human mind.

50 Human Brain Ideas You Really Need to Know Quercus

Have you ever lain awake at night worried about how we can be sure of the reality of the external world? Perhaps we are in fact disembodied brains, floating in vats at the whim of some deranged puppetmaster. If so, you are not alone--and what's more, you are in exalted company--for this question and other ones like it have been the stuff of philosophical rumination from Plato to Popper. In a series of accessible and engagingly written essays, **50 Philosophy Ideas You Really Need to Know** introduces and explains the problems of knowledge, consciousness, identity, ethics, belief, justice, and aesthetics that have engaged the attention of thinkers from the era of the ancient Greeks to the present day.

50 Digital Ideas You Really Need to Know Quercus Publishing

In recent years knowledge of our genetic code has changed our understanding of life on Earth. New genetic technologies are transforming the way we live and promise treatments for otherwise incurable diseases. But these advances are also generating controversy, particularly surrounding issues such as cloning and designer babies. In **50 Genetics Ideas**, Mark Henderson distills the central ideas of genetics in a series of clear and concise essays. Beginning with the theory of evolution, and covering such topics as the genome and how nature and nurture work together, he not only illuminates the role of genes in shaping our behaviour and sexuality, but also the very latest, cutting-edge developments in gene therapy and artificial life. Accessible and informative, **50 Genetics Ideas** is a timely introduction to this young and ground-breaking strand of science.

50 Economics Ideas You Really Need to Know Quercus Publishing

In **Cook's Science**, the all-new companion to the New York Times bestselling **The Science of Good Cooking**, America's Test Kitchen deep dives into the surprising science behind 50 of our favorite ingredients--and uses that science to make them taste their best. From the editors of **Cook's Illustrated**, and the best-selling **The Science of Good Cooking**, comes an all-new companion book highlighting 50 of our favorite ingredients and the (sometimes surprising) science behind them: **Cook's Science**. Each chapter explains the science behind one of the 50 ingredients in a short, informative essay--topics ranging from pork shoulder to apples to quinoa to dark chocolate--before moving onto an original (and sometimes quirky) experiment, performed in our test kitchen and designed to show how the science works. The book includes 50

dynamic, full-page color illustrations, giving in-depth looks at individual ingredients, "family trees" of ingredients, and cooking techniques like sous vide, dehydrating, and fermentation. The 400+ foolproof recipes included take the science into the kitchen, and range from crispy fried chicken wings to meaty-tasting vegetarian chili, coconut layer cake to strawberry rhubarb pie.

Universe Quercus

For millennia humanity has gazed in wonder at the night sky, tracked the motions of the planets and attempted to explain our place in the Universe. But only in our own time has the true scale, the astonishing variety and the remarkable strangeness of the cosmos come clearly into focus. The pace and sophistication of recent scientific discovery has been breathtaking, but breakthroughs are often difficult to understand and their impact is hard to fully appreciate. In *50 Ideas You Really Need to Know: Universe*, Joanne Baker clearly and concisely explains all of the essential concepts, major discoveries and the very latest thinking in astrophysics, including: the basic principles of astronomy - from heliocentrism to Newton's theory of optics; the constituent parts of the Universe, its creation and evolution; the key concepts of cosmology including the theory of relativity, supermassive black holes and 'multiverses'; the very latest developments in our understanding of quasars, exoplanets and astrobiology. From dwarf planets to dark energy; and from the Big Bang to the death of stars, this book is the perfect introduction to the cutting-edge science that is shaping our understanding of our place in the Universe and that could lead to the next great discovery - the detection of life beyond Earth.

50 Quantum Physics Ideas You Really Need to Know Quercus Publishing

Controversial and unavoidable, it shapes our society and our lives - but what really is capitalism? Does it mean greed is good? Are inequality and poverty its inevitable consequences? Can economic growth continue forever or are constant cycles of boom and bust a foregone conclusion? Indeed is capitalism in a fatal crisis - and what, if any, are the alternatives? From capitalism's history, core theories and key institutions to its current-day political power and social impact, this book explains everything you need to understand the world's dominant economic system. Jonathan Portes demystifies the fundamental concepts of capital, creative destruction, the market and the invisible hand; dissects the rival ideologies of socialism, liberalism and Keynesianism; predicts what capitalism means for immigration, the environment and the future of work; and much more - all in 50 concise and authoritative essays. Here is the essential one-volume guide to capitalism: its strengths and weaknesses, past and future - a future that will affect us all.

50 Ideas You Really Need to Know Hachette UK

"Capitalism is the economic system that shapes our society and our lives, the set of principles that underlie our politics and our futures: but what does it really mean? What is money? What drives growth and what happens when it stops? What role can - or should - regulation play? Why did capitalism overcome rival systems in the past, why is it in crisis today - and what is its future? In this engaging set of 50 essays based around central concepts of economics, Jonathan Portes lays out the fundamental tenets of capitalism, the key moments of its history, the ideologies that have opposed it, and the possibilities contained within its future: a future that will impact us all"--Library of Congress.

The Encyclopaedia Britannica 50 Ideas You Really Need to Know series

What will the world look like in 2020, 2030 or even 2100? How will progress in scientific research affect human life in the areas of health and lifestyle, energy and the environment, politics and conflict, space exploration and even the ultimate questions of existence? This thoroughly researched and superbly written book offers an electrifying trip through the wonders--and terrors--awaiting us over the next hundred years.

Thinking, Being, Acting Seeing - Profound Insights and Powerful Thinking from Fifty Key Books 50 Big Ideas You Really Need to Know

From the Pyramids of Giza to the Guggenheim, this lively guide explains the key concepts and inventions in architecture clearly and concisely. Exploring the myriad ways in which the built environment is shaped and created, readers will gain a new and informed appreciation for architecture, from the classical orders of Vitruvius--Doric, Ionic and Corinthian--to the most recent contemporary trends. Philip Wilkinson offers expert introductions to the most important architectural movements and styles throughout history, as well as describing some of the greatest architects' most important and representative works. So, if you've ever wondered when a building is just a building or art, or want to know more about Gothic vaults, trusses and arches, this is the perfect introduction.

50 Capitalism Ideas You Really Need to Know Hachette UK

A New York Times bestseller! "Lively and absorbing. . ." — The New York Times Book Review "Engrossing." —Wall Street Journal "Entertaining and well-researched. . ." —Houston Chronicle Three noted Texan writers combine forces to tell the real story of the Alamo, dispelling the myths, exploring why they had their day for so long, and explaining why the ugly fight about its meaning is now coming to a head. Every nation needs its creation myth, and since Texas was a nation before it was a state, it's no surprise that its myths bite deep. There's no piece of history more important to Texans than the Battle of the Alamo, when Davy Crockett and a band of rebels went down in a blaze of glory fighting for independence from Mexico, losing the battle but setting Texas up to win the war. However, that version of events, as *Forget the Alamo* definitively shows, owes more to fantasy than reality. Just as the site

of the Alamo was left in ruins for decades, its story was forgotten and twisted over time, with the contributions of Tejanos--Texans of Mexican origin, who fought alongside the Anglo rebels--scrubbed from the record, and the origin of the conflict over Mexico's push to abolish slavery papered over. *Forget the Alamo* provocatively explains the true story of the battle against the backdrop of Texas's struggle for independence, then shows how the sausage of myth got made in the Jim Crow South of the late nineteenth and early twentieth century. As uncomfortable as it may be to hear for some, celebrating the Alamo has long had an echo of celebrating whiteness. In the past forty-some years, waves of revisionists have come at this topic, and at times have made real progress toward a more nuanced and inclusive story that doesn't alienate anyone. But we are not living in one of those times; the fight over the Alamo's meaning has become more pitched than ever in the past few years, even violent, as Texas's future begins to look more and more different from its past. It's the perfect time for a wise and generous-spirited book that shines the bright light of the truth into a place that's gotten awfully dark.