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KEY=LIFE - JANIAH KENNEDI

CARL SAGAN

A LIFE

John Wiley & Sons A biography of the astronomer reveals an intellectually astute and emotionally tempestuous man who found himself involved in a host of controversial activities, from visiting Timothy Leary in prison to protesting nuclear weapons, while serving as a visionary voice of the scientific community

FOCUS ON: 100 MOST POPULAR DEATHS FROM PNEUMONIA

e-artnow sro

FOCUS ON: 100 MOST POPULAR AMERICAN AGNOSTICS

e-artnow sro

DISCOVERING PLUTO

EXPLORATION AT THE EDGE OF THE SOLAR SYSTEM

University of Arizona Press The story of Pluto and its largest moon, from discovery through the New Horizons flyby--Provided by publisher.

THE AMERICAN POPULAR NOVEL AFTER WORLD WAR II

A STUDY OF 25 BEST SELLERS, 1947-2000

McFarland "Through the perspectives of selected novels from the end of World War II to the end of the 20th century this book examines crucial issues for Americans during those decades. These novels represent the voices of popular conversations, as Americans considered issues of family, class, racism and sexism, feminism,

economic ambition, sexual violence, war, law, religion and science"--Provided by publisher.

SPACE, TIME, AND ALIENS

COLLECTED WORKS ON COSMOS AND CULTURE

Springer Nature In this comprehensive and interdisciplinary volume, former NASA Chief Historian Steven Dick reflects on the exploration of space, astrobiology and its implications, cosmic evolution, astronomical institutions, discovering and classifying the cosmos, and the philosophy of astronomy. The unifying theme of the book is the connection between cosmos and culture, or what Carl Sagan many years ago called the "cosmic connection." As both an astronomer and historian of science, Dr. Dick has been both a witness to and a participant in many of the astronomical events of the last half century. This collection of papers presents his reflections over the last forty years in a way accessible to historians, philosophers, and scientists alike. From the search for alien life to ongoing space exploration efforts, readers will find this volume full of engaging topics relevant to science, society, and our collective future on planet Earth and beyond.

STORIES MAKE THE WORLD

REFLECTIONS ON STORYTELLING AND THE ART OF THE DOCUMENTARY

Berghahn Books Since the beginning of human history, stories have helped people make sense of their lives and their world. Today, an understanding of storytelling is invaluable as we seek to orient ourselves within a flood of raw information and an unprecedented variety of supposedly true accounts. In *Stories Make the World*, award-winning screenwriter Stephen Most offers a captivating, refreshingly heartfelt exploration of how documentary filmmakers and other storytellers come to understand their subjects and cast light on the world through their art. Drawing on the author's decades of experience behind the scenes of television and film documentaries, this is an indispensable account of the principles and paradoxes that attend the quest to represent reality truthfully.

CONTACT

Simon and Schuster Pulitzer Prize-winning author and astronomer Carl Sagan imagines the greatest adventure of all—the discovery of an advanced civilization in the depths of space. In December of 1999, a multinational team journeys out to the stars, to the most awesome encounter in human history. Who—or what—is out there? In *Cosmos*, Carl Sagan explained the universe. In *Contact*, he predicts its future—and our own.

CARL SAGAN

A BIOGRAPHY

Greenwood Publishing Group Presents the personal life, scientific accomplishments, and career of Carl Sagan, astronomer, educator, and public television series host.

CARL SAGAN

A LIFE IN THE COSMOS

Holt Paperbacks In this compelling life of Carl Sagan, award-winning science writer William Poundstone details the transformation of a bookish young astronomer obsessed with life on other worlds into science's first authentic media superstar. The instantly recognizable Sagan, a fixture on television and a bestselling author, offered the layperson entry into the mysteries of the cosmos and of science in general. To much of the scientific community, however, he was a pariah, a brazen publicity seeker who cared more about his image and his fortune than the advancement of science. Poundstone reveals the seldom-discussed aspects of Sagan's life, the legitimate and important work of his early scientific career, the almost obsessive capacity to take on endless projects, and the multiple marriages and fractured personal life, in what *The New Yorker* called an "evenhanded guide" to a great man's career.

BEHIND THE CURVE

SCIENCE AND THE POLITICS OF GLOBAL WARMING

University of Washington Press In 1958, Charles David Keeling began measuring the concentration of carbon dioxide in the earth's atmosphere at the Mauna Loa Observatory in Hawaii. His project kicked off a half century of research that has expanded our knowledge of climate change. Despite more than fifty years of research, however, our global society has yet to find real solutions to the problem of global warming. Why? In *Behind the Curve*, Joshua Howe attempts to answer this question. He explores the history of global warming from its roots as a scientific curiosity to its place at the center of international environmental politics. The book follows the story of rising CO₂—illustrated by the now famous Keeling Curve—through a number of historical contexts, highlighting the relationships among scientists, environmentalists, and politicians as those relationships changed over time. The nature of the problem itself, Howe explains, has privileged scientists as the primary spokespeople for the global climate. But while the science-first forms of advocacy they developed to fight global warming produced more and better science, the primacy of science in global warming politics has failed to produce meaningful results. In fact, an often exclusive focus on science has left advocates for change vulnerable to political opposition and has limited much of the discussion to debates about the science itself. As a result, while we know much more about global warming than we did fifty years ago, CO₂ continues to rise. In 1958, Keeling first measured CO₂ at around 315 parts per million; by 2013, global CO₂ had soared to 400 ppm. The problem is not getting better - it's getting worse. *Behind the Curve* offers a critical and levelheaded look at how we got here.

RARE EARTH

WHY COMPLEX LIFE IS UNCOMMON IN THE UNIVERSE

Springer What determines whether complex life will arise on a planet, or even any life at all? Questions such as these are investigated in this groundbreaking book. In doing so, the authors synthesize information from astronomy, biology, and paleontology, and apply it to what we know about the rise of life on Earth and to what could possibly happen elsewhere in the universe. Everyone who has been thrilled by the recent discoveries of extrasolar planets and the indications of life on Mars and the Jovian moon Europa will be fascinated by Rare Earth, and its implications for those who look to the heavens for companionship.

WEATHER FOR DUMMIES

John Wiley & Sons What's going on up there when the rain falls, when the wind blows, when the clouds roll in and the lightning flashes? How do hurricanes arise and where do tornadoes come from? Why do seasonal conditions sometimes vary so much from one year to the next? Our ways of life, our very existences depend on knowing the answers to questions like these. Economies have been wiped out, civilizations have risen and fallen, entire species have come into being or gone extinct because of a temperature shift of just a few degrees, or a brief shortage or glut of rainfall. With so much riding on the weather, it makes you wonder how you've lived this long without knowing more about it. Don't worry it's never too late to find out about what makes the weather tick. And there's never been an easier or more enjoyable way to learn than Weather For Dummies. In know time, you'll know enough of weather basics to be able to: Identify cloud types Make sense of seasonal differences in the weather Understand what causes hurricanes, tornadoes, and other extreme events Make your own weather forecasts Avoid danger during severe weather Understand the global warming debate Get a handle on smog, the greenhouse effect, El Niño, and more Award-winning science writer John D. Cox brings the science of meteorology down to earth and, with the help of dozens of cool maps and charts and stunning photographs of weather conditions, he covers a wide range of fascinating subjects, including: What is weather and how it fits into the entire global ecosystem What goes into making a professional daily weather forecast The basic elements of weather, including air pressure, clouds, and humidity Storms, hurricanes, tornadoes, monsoons, and other extreme forms of weather Seasonal weather effects and why they vary Lightning, rainbows, sundogs, haloes, and other special effects Featuring clear explanations, stunning illustrations, and fun, easy experiments and activities you can do at home , Weather For Dummies is your guide to making sense of the baffling turmoil of the ever-changing skies above.

ORIGINS

THE QUEST FOR OUR COSMIC ROOTS

CRC Press With stunning regularity, the search for our cosmic roots has been yielding remarkable new discoveries about the universe and our place in it. In his

compelling book, *Origins: The Quest for Our Cosmic Roots*, veteran science journalist Tom Yulsman chronicles the latest discoveries and describes in clear and engaging terms what they mean. From the interior of protons to the outer reaches of the universe, and from the control room of one of the world's most powerful particle accelerators to an observatory atop the tallest mountain in the Pacific basin, Yulsman takes readers on a fantastic voyage at the cutting edge of science. How could the universe have sprouted from absolute nothingness? What is the origin of galaxies? How do stars and planets form? And despite what now seem to be incredible odds, how did Earth come to be a rich oasis of biodiversity—one that has given rise to a species intelligent enough to ask these questions? In laying out the answers, *Origins* addresses some of the most profound issues humans have ever confronted.

WRINKLES IN TIME

WITNESS TO THE BIRTH OF THE UNIVERSE

Harper Collins Astrophysicist George Smoot spent decades pursuing the origin of the cosmos, "the holy grail of science," a relentless hunt that led him from the rain forests of Brazil to the frozen wastes of Antarctica. In his search he struggled against time, the elements, and the forces of ignorance and bureaucratic insanity. Finally, after years of research, Smoot and his dedicated team of Berkeley researchers succeeded in proving the unprovable—uncovering, inarguably and for all time, the secrets of the creation of the universe. *Wrinkles in Time* describes this startling discovery that would usher in a new scientific age—and win Smoot the Nobel Prize in Physics.

IDEA MAN

A MEMOIR BY THE CO-FOUNDER OF MICROSOFT

Penguin UK By his early thirties, Paul Allen was a world-famous billionaire—and that was just the beginning. In 2007 and 2008, *Time* named Paul Allen, the cofounder of Microsoft, one of the hundred most influential people in the world. Since he made his fortune, his impact has been felt in science, technology, business, medicine, sports, music, and philanthropy. His passion, curiosity, and intellectual rigor—combined with the resources to launch and support new initiatives—have literally changed the world. In 2009 Allen discovered that he had lymphoma, lending urgency to his desire to share his story for the first time. In this long-awaited memoir, Allen explains how he has solved problems, what he's learned from his many endeavors—both the triumphs and the failures—and his compelling vision for the future. He reflects candidly on an extraordinary life. The book also features previously untold stories about everything from the true origins of Microsoft to Allen's role in the dawn of private space travel (with SpaceShipOne) and in discoveries at the frontiers of brain science. With honesty, humor, and insight, Allen tells the story of a life of ideas made real.

MERCHANTS OF DOUBT

HOW A HANDFUL OF SCIENTISTS OBSCURED THE TRUTH ON ISSUES FROM TOBACCO SMOKE TO GLOBAL WARMING

A&C Black The U.S. scientific community has long led the world in research on such areas as public health, environmental science, and issues affecting quality of life. These scientists have produced landmark studies on the dangers of DDT, tobacco smoke, acid rain, and global warming. But at the same time, a small yet potent subset of this community leads the world in vehement denial of these dangers. *Merchants of Doubt* tells the story of how a loose-knit group of high-level scientists and scientific advisers, with deep connections in politics and industry, ran effective campaigns to mislead the public and deny well-established scientific knowledge over four decades. Remarkably, the same individuals surface repeatedly--some of the same figures who have claimed that the science of global warming is "not settled" denied the truth of studies linking smoking to lung cancer, coal smoke to acid rain, and CFCs to the ozone hole. "Doubt is our product," wrote one tobacco executive. These "experts" supplied it. Naomi Oreskes and Erik M. Conway, historians of science, roll back the rug on this dark corner of the American scientific community, showing how ideology and corporate interests, aided by a too-compliant media, have skewed public understanding of some of the most pressing issues of our era.

THE BEGINNING AND THE END

THE MEANING OF LIFE IN A COSMOLOGICAL PERSPECTIVE

Springer In this fascinating journey to the edge of science, Vidal takes on big philosophical questions: Does our universe have a beginning and an end or is it cyclic? Are we alone in the universe? What is the role of intelligent life, if any, in cosmic evolution? Grounded in science and committed to philosophical rigor, this book presents an evolutionary worldview where the rise of intelligent life is not an accident, but may well be the key to unlocking the universe's deepest mysteries. Vidal shows how the fine-tuning controversy can be advanced with computer simulations. He also explores whether natural or artificial selection could hold on a cosmic scale. In perhaps his boldest hypothesis, he argues that signs of advanced extraterrestrial civilizations are already present in our astrophysical data. His conclusions invite us to see the meaning of life, evolution and intelligence from a novel cosmological framework that should stir debate for years to come.

THE WAY OF THE EXPLORER

AN APOLLO ASTRONAUT'S JOURNEY THROUGH THE MATERIAL AND MYSTICAL WORLDS: EASYREAD LARGE BOLD EDITION

ReadHowYouWant.com The Way of the Explorer traces two remarkable journeys--one through space, and one through the mind. Together they fundamentally alter the way we understand the miracle and mystery of being, and ultimately reveal humankind's role in its own destiny.

ARCHAEOLOGY, ANTHROPOLOGY, AND INTERSTELLAR COMMUNICATION

National Aeronautics & Space Admin Are we alone? asks the writeup on the back cover of the dust jacket. The contributors to this collection raise questions that may have been overlooked by physical scientists about the ease of establishing meaningful communication with an extraterrestrial intelligence. By drawing on issues at the core of contemporary archaeology and anthropology, we can be much better prepared for contact with an extraterrestrial civilization, should that day ever come. NASA SP-2013-4413.

HIGH

INSIGHTS ON MARIJUANA

Dog Ear Publishing Is it true that a marijuana high can lead to profound insights, as many users have reported? In his now classic essay "Mr. X," anonymously published in 1971, even the famous astronomer Carl Sagan claimed that he owed many invaluable insights for his publications to marijuana. The investigation High. Insights on Marijuana explains in depth the different ways a marijuana high can lead to insights as well as to other mind enhancements, such as the enhancement of episodic memory, pattern recognition, imagination, creativity, introspection, and our ability for empathic understanding. Countless fascinating reports given by marijuana users and cutting-edge research from various areas of knowledge help Marincolo to take our understanding of the marijuana high to a new level. His unusual study is a thoroughly accessible and entertaining interdisciplinary tour de force through the current cognitive sciences, evolutionary psychology, neuropsychology and the philosophy of mind. High. Insights on Marijuana offers a revolutionary new perspective on the mind-enhancing potential of marijuana and takes his readers to a voyage deep into the high mind.

GOOD RESEARCH PRACTICE IN NON-CLINICAL PHARMACOLOGY AND BIOMEDICINE

Springer Nature This open access book, published under a CC BY 4.0 license in the Pubmed indexed book series Handbook of Experimental Pharmacology, provides up-to-date information on best practice to improve experimental design and quality of research in non-clinical pharmacology and biomedicine.

PRINCIPLES OF IGNEOUS AND METAMORPHIC PETROLOGY

Cambridge University Press This textbook provides a basic understanding of the formative processes of igneous and metamorphic rock through quantitative applications of simple physical and chemical principles. The book encourages a deeper comprehension of the subject by explaining the petrologic principles rather than simply presenting the student with petrologic facts and terminology. Assuming knowledge of only introductory college-level courses in physics, chemistry, and calculus, it lucidly outlines mathematical derivations fully and at an elementary level.

and is ideal for intermediate and advanced courses in igneous and metamorphic petrology. The end-of-chapter quantitative problem sets facilitate student learning by working through simple applications. They also introduce several widely-used thermodynamic software programs for calculating igneous and metamorphic phase equilibria and image analysis software. With over 350 illustrations, this revised edition contains valuable new material on the structure of the Earth's mantle and core, the properties and behaviour of magmas, recent results from satellite imaging, and more.

THE PSYCHOLOGY OF MONEY

TIMELESS LESSONS ON WEALTH, GREED, AND HAPPINESS

Harriman House Limited Doing well with money isn't necessarily about what you know. It's about how you behave. And behavior is hard to teach, even to really smart people. Money—investing, personal finance, and business decisions—is typically taught as a math-based field, where data and formulas tell us exactly what to do. But in the real world people don't make financial decisions on a spreadsheet. They make them at the dinner table, or in a meeting room, where personal history, your own unique view of the world, ego, pride, marketing, and odd incentives are scrambled together. In *The Psychology of Money*, award-winning author Morgan Housel shares 19 short stories exploring the strange ways people think about money and teaches you how to make better sense of one of life's most important topics.

YOUR INNER FISH

A JOURNEY INTO THE 3.5-BILLION-YEAR HISTORY OF THE HUMAN BODY

Vintage The paleontologist and professor of anatomy who co-discovered Tiktaalik, the “fish with hands,” tells a “compelling scientific adventure story that will change forever how you understand what it means to be human” (Oliver Sacks). By examining fossils and DNA, he shows us that our hands actually resemble fish fins, our heads are organized like long-extinct jawless fish, and major parts of our genomes look and function like those of worms and bacteria. *Your Inner Fish* makes us look at ourselves and our world in an illuminating new light. This is science writing at its finest—enlightening, accessible and told with irresistible enthusiasm.

THE SAGAN CONSPIRACY

NASA'S UNTOLD PLOT TO SUPPRESS THE PEOPLE'S SCIENTIST'S THEORY OF ANCIENT ALIENS

Red Wheel/Weiser Mainstream SETI scientists and ancient alien theorists don't agree on much, but one opinion they share is that the undisputed authority on the possibility of alien existence was the late Carl Sagan (1934–1996), whose voluminous writings on the subject have had a profound influence on ETI research. But how many Carl Sagan fans know that while the renowned scientist was at Stanford University, he produced a controversial paper, funded by a NASA research

grant, that concludes ancient alien intervention may have sparked human civilization? Author Donald Zygutis lays out a compelling case that points to a cover-up by the Pentagon and NASA, who may have buried it soon after it was written. How significant is the Stanford Paper? The answer may lie in another question: How would a science-backed theory and search strategy to guide the discovery of alien artifacts among our own ancient civilizations impact the worldwide institutions of government, religion, and culture? Recently rediscovered by the author, Sagan's lost Stanford paper is the central theme of *The Sagan Conspiracy*. Groundbreaking research and paradigm-changing material challenges conventional thinking about the People's Scientist—and maybe even the origins of human society. Sagan even conceived of the likelihood that the ancient Sumerian civilization had been visited and influenced by beings from other worlds as evidenced by ancient manuscripts, among other artifacts. As we celebrate the 20-year anniversary of Carl's death, *The Sagan Conspiracy* is sure to fundamentally alter how the world thinks about extraterrestrials.

THE DEMON IN THE MACHINE

HOW HIDDEN WEBS OF INFORMATION ARE SOLVING THE MYSTERY OF LIFE

University of Chicago Press *Physics World Book of the Year* *A Financial Times, Sunday Times, and Telegraph Best Science Book of the Year* What is life? For generations, scientists have struggled to make sense of this fundamental question, for life really does look like magic: even a humble bacterium accomplishes things so dazzling that no human engineer can match it. Huge advances in molecular biology over the past few decades have served only to deepen the mystery. In this penetrating and wide-ranging book, world-renowned physicist and science communicator Paul Davies searches for answers in a field so new and fast-moving that it lacks a name; it is a domain where biology, computing, logic, chemistry, quantum physics, and nanotechnology intersect. At the heart of these diverse fields, Davies explains, is the concept of information: a quantity which has the power to unify biology with physics, transform technology and medicine, and force us to fundamentally reconsider what it means to be alive—even illuminating the age-old question of whether we are alone in the universe. From life's murky origins to the microscopic engines that run the cells of our bodies, *The Demon in the Machine* journeys across an astounding landscape of cutting-edge science. Weaving together cancer and consciousness, two-headed worms and bird navigation, Davies reveals how biological organisms garner and process information to conjure order out of chaos, opening a window onto the secret of life itself.

ACHIEVING PERSON-CENTRED HEALTH SYSTEMS

EVIDENCE, STRATEGIES AND CHALLENGES

Cambridge University Press An evidence-based analysis of the opportunities and challenges of moving towards more person-centred health systems.

COMEDY AND DISTINCTION

THE CULTURAL CURRENCY OF A 'GOOD' SENSE OF HUMOUR

Routledge This book was shortlisted for the 2015 BSA Philip Abrams Memorial Prize. Comedy is currently enjoying unprecedented growth within the British culture industries. Defying the recent economic downturn, it has exploded into a booming billion-pound industry both on TV and on the live circuit. Despite this, academia has either ignored comedy or focused solely on analysing comedians or comic texts. This scholarship tends to assume that through analysing an artist's intentions or techniques, we can somehow understand what is and what isn't funny. But this poses a fundamental question – funny to whom? How can we definitively discern how audiences react to comedy? Comedy and Distinction shifts the focus to provide the first ever empirical examination of British comedy taste. Drawing on a large-scale survey and in-depth interviews carried out at the Edinburgh Festival Fringe, the book explores what types of comedy people like (and dislike), what their preferences reveal about their sense of humour, how comedy taste lubricates everyday interaction, and how issues of social class, gender, ethnicity and geographical location interact with patterns of comic taste. Friedman asks: Are some types of comedy valued higher than others in British society? Does more 'legitimate' comedy taste act as a tangible resource in social life – a form of cultural capital? What role does humour play in policing class boundaries in contemporary Britain? This book will be of interest to students and scholars of sociology, social class, social theory, cultural studies and comedy studies.

HANDBOOK ON TEACHING SOCIAL ISSUES

2ND EDITION

IAP The Handbook on Teaching Social Issues, 2nd edition, provides teachers and teacher educators with a comprehensive guide to teaching social issues in the classroom. This second edition re-frames the teaching of social issues with a dedicated emphasis on issues of social justice. It raises the potential for a new and stronger focus on social issues instruction in schools. Contributors include many of the leading experts in the field of social studies education. Issues-centered social studies is an approach to teaching history, government, geography, economics and other subject related courses through a focus on persistent social issues. The emphasis is on problematic questions that need to be addressed and investigated in-depth to increase social understanding, active participation, and social progress. Questions or issues may address problems of the past, present, or future, and involve disagreement over facts, definitions, values, and beliefs arising in the study of any of the social studies disciplines, or other aspects of human affairs. The authors and editor believe that this approach should be at the heart of social studies instruction in schools. **ENDORSEMENTS** "At a time when even the world's most stable democracies are backsliding towards autocratic rule, Ronald Evans has pulled together an essential guide for teachers who want to do something about it. The 2nd edition of the Handbook on Teaching Social Issues is a brilliant and timely collection

that should be the constant companion for teachers across the disciplines." Joel Westheimer University Research Chair in Democracy and Education University of Ottawa "The Handbook on Teaching Social Issues (2nd edition) is a fantastic resource for teachers, teacher educators, and professional development specialists who are interested in ensuring that social issues are at the center of the curriculum. The chapters are focused on the most important contemporary thinking about what social issues are, why they are so important for young people to learn about, and what research indicates are the most effective pedagogical approaches. The wide-ranging theoretical and practical expertise of the editor and all of the chapter authors account for why this handbook makes such an exceptional contribution to our understanding of how and why the social issues approach is so important and stimulating." Diana Hess Dean, UW-Madison School of Education Karen A. Falk Distinguished Chair of Education "Democracy, both as a form of governance and a reservoir of principles and practices, faces an existential threat. The Handbook on Teaching Social Issues is a perfectly-timed and wonderfully engaging exploration of what lies at the heart of social studies curriculum: social inquiry for democratic life. The authors provide conceptual frames, classroom strategies and deep insights about the complex and utterly crucial work of education for democratic citizenship. Education like that conceptualized and described in this volume is a curative so needed at this critical moment. Ron Evans and his colleagues have delivered, assembling an outstanding set of contributions to the field. The Handbook underscores John Dewey's now-haunting invocation that democracy must be renewed with each generation and an education worthy of its name is the handmaiden of democratic rebirth." William Gaudelli Dean and Professor Lehigh University "This volume is so timely and relevant for democratic education. Instead of retreating to separate ideological corners, the authors in this handbook invite us to engage in deliberative discourse that requires civic reasoning and often requires us to meet in a place that serves us all." Gloria Ladson-Billings, Professor Emerita Department of Curriculum & Instruction University of Wisconsin President, National Academy of Education Fellow, AERA, AAAS, and Hagler Institute @ Texas A&M "At the heart of our divisive political and social climate is the need to understand and provide clarity over polarizing concepts. Historically, confusion and resistance has hindered the nation's growth as a democratic nation. Typically, the most vulnerable in our society has suffered the most from our unwillingness to reconceptualize society. The Handbook on Teaching Social Issues, 2nd edition, is a good step in helping social studies educators, students, and laypersons realize a new society that focuses on equity. With over 30 chapters, Ronald Evans and his colleagues' centered inquiry, critical thinking, controversy, and action to challenge ideologies and connect social studies to student's lives and the real world. The first edition helped me as a young social studies teacher; I am excited to use the 2nd edition with my teacher education students!" LaGarrett King Isabella Wade Lyda and Paul Lyda Professor of Education Founding Director, CARTER Center for K-12 Black history education University of Missouri "Ronald Evans has curated a collection of informative contributions that will serve as an indispensable resource for social studies educators committed to engaging their students in the thoughtful examination of social issues. The Handbook on Teaching Social Issues, 2nd edition, articulates the historical,

definitional, and conceptual foundations of social issues education. It offers clear presentations of general guidelines for unit planning, discussion methods, and assessment. It identifies specific teaching strategies, resources, and sample lessons for investigating a range of persistent and contemporary social issues on the elementary, middle, and secondary levels through the social studies disciplines. Updated with perspectives on education for social justice that have emerged since the first edition, this edition effectively situates social issues education in the contemporary sociopolitical milieu. The Handbook on Teaching Social Issues, is a timely, accessible, and practical guide to involving students in a vital facet of citizenship in a democracy." William G. Wraga, Professor Dean's Office Mary Frances Early College of Education University of Georgia "The Handbook on Teaching Social Issues, 2nd edition is a long-awaited, welcome, and timely volume. It is apparent that the foundational tenets of the first edition have served social studies professionals well over the past 25 years, given the growth of social issues scholarship showcased in this new edition. Notable is the re-framing and presentation here of scholarship through a social justice lens. I appreciate the offering of unique tools on an array of specific, critical topics that fill gaps in our pedagogical content knowledge. This volume will sit right alongside my dog-eared 1996 edition and fortify many methods courses, theses, and dissertations to come. Sincere thanks to the editor and authors for what I am certain will be an enduring, catalyzing contribution." Nancy C. Patterson Professor of Education Social Studies Content Area Coordinator Bowling Green State University "The Handbook on Teaching Social Issues is a tool that every informed social studies educator should have in their instructional repertoire. Helping students understand how to investigate and take action against problems is essential to developing a better world. The articles in this handbook provide explanations and reasonings behind issues-centered education as well as strategies to employ at every age level of learning. I look forward to using this edition with the K-12 social studies teachers in my district in order to better prepare our students for future learning and living." Kelli Hutt, Social Studies Curriculum Facilitator Dallas Center-Grimes CSD Grimes, Iowa "Ron Evans has chosen an appropriate time to create a companion publication to the first Handbook on Teaching Social Issues published in 1996. During the last few years, social studies teachers have been confronted by student inquiries on a plethora of historical and contemporary issues that implores for the implementation of an interdisciplinary approach to the teaching of anthropology, economics, geography, government, history, sociology, and psychology in order for students to make sense of the world around them and develop their own voices. This demands a student centered focus in the classroom where problematic questions must be addressed and investigated in depth in order to increase social understanding and active participation toward social progress. This volume provides crucial upgrades to the original handbook including a greater emphasis on teaching issues in the elementary grades, the inclusion of issues pertaining to human rights, genocide and sustainability to be addressed in the secondary grades, and addressing issues related to disabilities." Mark Previte, Associate Professor of Secondary Education University of Pittsburgh-Johnstown Chair, NCSS Issues Centered Education Community

LIGHT OF THE STARS: ALIEN WORLDS AND THE FATE OF THE EARTH

W. W. Norton & Company Winner of the 2019 Phi Beta Kappa Award for Science "A valuable perspective on the most important problem of our time." —Adam Becker, NPR Light of the Stars tells the story of humanity's coming of age as we realize we might not be alone in this universe. Astrophysicist Adam Frank traces the question of alien life from the ancient Greeks to modern thinkers, and he demonstrates that recognizing the possibility of its existence might be the key to save us from climate change. With clarity and conviction, Light of the Stars asks the consequential question: What can the likely presence of life on other planets tell us about our own fate?

THE SEVEN SECRETS OF HOW TO THINK LIKE A ROCKET SCIENTIST

Springer Science & Business Media This book translates "thinking like a rocket scientist" into every day thinking so it can be used by anyone. It's short and snappy and written by a rocket scientist. The book illustrates the methods (the 7 secrets) with anecdotes, quotations and biographical sketches of famous scientists, personal stories and insights, and occasionally some space history. The author reveals that rocket science is just common sense applied to the extraordinarily uncommon environment of outer space and that rocket scientists are people, too. It is intended for "armchair" scientists, and for those interested in popular psychology, space history, and science fiction films.

TIMELINES OF NEARLY EVERYTHING

Manjunath.R This book takes readers back and forth through time and makes the past accessible to all families, students and the general reader and is an unprecedented collection of a list of events in chronological order and a wealth of informative knowledge about the rise and fall of empires, major scientific breakthroughs, groundbreaking inventions, and monumental moments about everything that has ever happened.

THE INVENTION OF AFRICA: GNOSIS, PHILOSOPHY, AND THE ORDER OF KNOWLEDGE

Lulu Press, Inc "... groundbreaking... clear, straightforward, and economical.... seminal..." —American Anthropologist "This is a challenging book... a remarkable contribution to African intellectual history." —International Journal of African Historical Studies "Mudimbe's description of the struggles over Africa's self-invention are vivid and rewarding. From Blyden to Sartre, Temples to Senghor, Mudimbe provides a bold and versatile resume of Africa's literary inventors." —Village Voice Literary Supplement "... a landmark achievement in African studies." —Journal of Religion in Africa In this unique and provocative book, Zairean philosopher and writer V. Y. Mudimbe addresses the multiple scholarly discourses that exist—African and non-African—concerning the meaning of Africa and being African.

INTRODUCTION TO COASTAL PROCESSES AND GEOMORPHOLOGY

Cambridge University Press A complete guide to coastal processes and their related features for undergraduate students.

LIFE BY THE NUMBERS

John Wiley & Sons Incorporated A companion book to the PBS series reveals the myriad ways mathematical ideas can explain the world

GAMES, LEARNING, AND SOCIETY

LEARNING AND MEANING IN THE DIGITAL AGE

Cambridge University Press This volume is the first reader on video games and learning of its kind. Covering game design, game culture and games as twenty-first-century pedagogy, it demonstrates the depth and breadth of scholarship on games and learning to date. The chapters represent some of the most influential thinkers, designers and writers in the emerging field of games and learning - including James Paul Gee, Soren Johnson, Eric Klopfer, Colleen Macklin, Thomas Malaby, Bonnie Nardi, David Sirlin and others. Together, their work functions both as an excellent introduction to the field of games and learning and as a powerful argument for the use of games in formal and informal learning environments in a digital age.

FUNGI IN THE ENVIRONMENT

Cambridge University Press Fungi are of fundamental importance in the terrestrial environment. They have roles as decomposers, plant pathogens, symbionts, and in elemental cycles. Fungi are often dominant, and in soil can comprise the largest pool of biomass (including other microorganisms and invertebrates). They also play a role in maintenance of soil structure due to their filamentous growth habit and exopolymer production. Despite their important roles in the biosphere, fungi are frequently neglected within broader environmental and microbiological spheres. Additionally, mycological interests can be somewhat fragmented between traditional subject boundaries. This multi-disciplinary volume explores the roles and importance of fungi in the environment. Particular emphasis is given to major research advances made in recent years as a result of molecular and genomic approaches, and in cell imaging and biology. Drawing together microbiologists, mycologists, and environmental scientists, this work is a unique account of modern environmental mycology, and a pivotal contribution to the field.

A VOYAGE THROUGH TURBULENCE

Cambridge University Press Turbulence is widely recognized as one of the outstanding problems of the physical sciences, but it still remains only partially understood despite having attracted the sustained efforts of many leading scientists for well over a century. In A Voyage Through Turbulence we are transported through a crucial period of the history of the subject via biographies of twelve of its great personalities, starting with Osborne Reynolds and his pioneering work of the 1880s.

This book will provide absorbing reading for every scientist, mathematician and engineer interested in the history and culture of turbulence, as background to the intense challenges that this universal phenomenon still presents.

LIFESPAN

WHY WE AGE—AND WHY WE DON'T HAVE TO

Atria Books A NEW YORK TIMES BESTSELLER “Brilliant and enthralling.” —The Wall Street Journal A paradigm-shifting book from an acclaimed Harvard Medical School scientist and one of Time’s most influential people. It’s a seemingly undeniable truth that aging is inevitable. But what if everything we’ve been taught to believe about aging is wrong? What if we could choose our lifespan? In this groundbreaking book, Dr. David Sinclair, leading world authority on genetics and longevity, reveals a bold new theory for why we age. As he writes: “Aging is a disease, and that disease is treatable.” This eye-opening and provocative work takes us to the frontlines of research that is pushing the boundaries on our perceived scientific limitations, revealing incredible breakthroughs—many from Dr. David Sinclair’s own lab at Harvard—that demonstrate how we can slow down, or even reverse, aging. The key is activating newly discovered vitality genes, the descendants of an ancient genetic survival circuit that is both the cause of aging and the key to reversing it. Recent experiments in genetic reprogramming suggest that in the near future we may not just be able to feel younger, but actually become younger. Through a page-turning narrative, Dr. Sinclair invites you into the process of scientific discovery and reveals the emerging technologies and simple lifestyle changes—such as intermittent fasting, cold exposure, exercising with the right intensity, and eating less meat—that have been shown to help us live younger and healthier for longer. At once a roadmap for taking charge of our own health destiny and a bold new vision for the future of humankind, Lifespan will forever change the way we think about why we age and what we can do about it.