

Origins The Lives And Worlds Of Modern Cosmologists

The seminal event of the 20th century, the origins of the First World War have always been difficult to establish and have aroused deep controversy. Annika Mombauer tracks the impassioned debates as they developed at critical points through the twentieth century. The book focuses on the controversy itself, rather than the specific events leading up to the war. Emotive and emotional from the very beginning of the conflict, the debate and the passions aroused in response to such issues as the 'war-guilt paragraph' of the treaty of Versailles, are set in the context of the times in which they were proposed. Similarly, the argument has been fuelled by concerns over the sacrifices that were made and the casualties that were suffered. Were they really justified?

Foreword Acknowledgments 1 The Context: Modern Arab Intellectual History, Themes, and Questions 2 Turath Resurgent? Arab Islamism and the Problematic of Tradition 3 Hasan al-Banna and the foundation fo the Ikhwan: Intellectual Underpinnings 4 Sayyid Qutb: The Pre-Ikhwan Phase 5 Sayyid Qutb's Thought between 1952 and 1962: A Prelude to His Qur'anic Exegesis 6 Qur'anic Contents of Sayyid Qutb's Thought 7 Toward an Islamic Liberation Theology: Muhammad Husayn Fadlallah and the Principles of Shi'i Resurgence 8 Islamic Revivalism: The Contemporary Debate Notes Bibliography Index

Humans seek pleasure indeed, humans venerate pleasure, but are humans sentient, or feelers by nature, the way Science depicts them? Because if humans are defined as feelers, and if they are expected to behave as feelers, then this becomes their meaning in the world, to feel everything, to feel good always, and therefore to live life feeling the best, even addicted. Yet as you notice, humans excel at reasoning the most, and not mainly at feeling, which describes more the animal kingdom. Pleasure is very good and it is better than pain, yet there is a great difference between feeling and reasoning. Reasoning is more about mastering life and the world, while feeling is about celebrating these. Yet even this statement is not entirely true, because feelings are not even abilities within your cognitive system, but feelings are only meant to signal needs and their fulfillment, while rewarding or punishing you depending on circumstances. While reasoning is your main cognitive ability, and you should treasure it accordingly. This gap in understanding makes a great difference indeed, because if you happen to live your life valuing feelings including your good feelings more than your actual abilities including all your cognitive abilities, then feelings and pleasure in special become your focus in life. And with the multitude of artificial sources of pleasure that Society can offer always, good luck to you, because it is only a matter of time before you too become addicted. And as we will see throughout the book, becoming addicted is not even an error of judgment that you make while trying to feel good in life as everyone else, but addiction is integral part of the normal natural process of your cognitive system, and it is even used by your subconscious intelligence in various circumstances in order to render you disposed to fulfill only specific highly important activities in life and to neglect the rest, as it is the case with your need for reproduction. Why? You have to understand Society, because once you are addicted, you become weak, predictable, and controllable, and this is how others take over your living and social niches. While you end up struggling with family, finance, and health problems, from then after. Would you like to be able to manage your life, your thinking, and your behavior? You have to be able to manage your feelings too, and you may do so not forcefully and not directly, since you are not a mechanism but a living being, but you can manage your feelings only by learning everything about your feelings, needs, development, addictions, intelligences, reasoning, behavior, Society, Life, the world, and your meaning and place in Life and in the world. Throughout this book, we study what causes addictions in the world, from all perspectives: cognitive, empiric, behavioral, social, scientific, developmental, and ideological. We also study each type of drug along with all addictive activities, in order to understand them and be able to find ways to withdraw and to avoid them in all circumstances. And since your life in this world along with your entire behavior have higher meanings, we integrate drugs, pleasure, and addictions within the human higher meaning in the world. This book is not only about drugs and addictions, but this book helps you understand your mind, needs, feelings, intelligence, society, behavior, development, rewards, punishments, health, stress, and relaxation, all leading to a better understanding of who you are, how you reason, how you feel, and how you interconnect with those around throughout life.

A study of the influence of German Chief of Staff Helmuth von Moltke, 1906-1914.

The book explores the reasons why the Second World War broke out in September 1939 and not sooner, and why a European war expanded into world war by 1941. The war has usually been seen simply as Hitler's war and yet the wider conflict that broke out when Germany invaded Poland was not the war that Hitler wanted. He had hoped for a short war against Poland; instead, Britain and France declared war on Germany. Richard Overy argues that any explanation of the outbreak of hostilities must therefore be multi-national and he shows how the war's origins are to be found in the basic instability of the international system that was brought about by the decline of the old empires of Britain and France and the rise of ambitious new powers, Italy, Germany and Japan, keen to build new empires of their own.

This publication, in two volumes, includes most of the scientific papers presented at the first meeting of the International Society for the Study of the Origin of Life (ISSOL), held on June 25-28, 1973 in Barcelona, Spain. The first volume contains the invited articles and the second volume the contributed papers, which also appear in the 1974 and 1975 issues, respectively, of the new journal *Origins of Life*, published by D. Reidel. A relatively large number of meetings on the subject of the origin of life have been held in different places since 1957. In terms of its organization, scope, and number and nationality of participants, the Conference celebrated last year in Barcelona closely followed the three international conferences held earlier in Moscow, U.S.S.R., 1957, Wakulla Springs, U.S.A., 1963, and Pont-a-Mousson, France, 1970. For this reason the first ISSOL meeting was also named the Ath International Conference on the Origin of Life.

Synthetic Biology — A Primer (Revised Edition) presents an updated overview of the field of synthetic biology and the foundational concepts on which it is built. This revised edition includes new literature references, working and updated URL links, plus some new figures and text where progress in the field has been made. The book introduces readers to fundamental concepts in molecular biology and engineering and then explores the two major themes for synthetic biology, namely 'bottom-up' and 'top-down' engineering approaches. 'Top-down' engineering uses a conceptual framework of systematic design and engineering principles focused around the Design-Build-Test cycle and mathematical modelling. The 'bottom-up' approach involves the design and building of synthetic protocells using basic chemical and biochemical building blocks from scratch exploring the fundamental basis of living systems. Examples of cutting-edge applications designed using synthetic biology principles are presented, including: the production of novel, microbial synthesis of pharmaceuticals and fine chemicalsthe design and implementation of biosensors to detect infections and environmental waste. The book also describes the Internationally Genetically Engineered Machine (iGEM) competition, which brings together students and young researchers from around the world to carry out summer projects in synthetic biology. Finally, the primer includes a chapter on the ethical, legal and societal issues surrounding synthetic biology, illustrating the integration of social sciences into synthetic biology research. Final year undergraduates, postgraduates and established researchers interested in learning about the interdisciplinary field of synthetic biology will benefit from this up-to-date primer on synthetic biology. Contents:List of ContributorsPrefaceIntroduction to BiologyBasic Concepts in Engineering BiologyFoundational TechnologiesMinimal Cells and Synthetic LifeParts, Devices and SystemsModelling Synthetic Biology SystemsApplications of Designed Biological SystemsiGEMThe Societal Impact of Synthetic BiologyAppendices:Proforma of Common Laboratory TechniquesGlossaryIndex Readership: Students, professionals, researchers in biotechnology and bioengineering. Keywords:Synthetic Biology;Engineering Principles;Biosociety;Biological Engineering;BiotechnologyKey Features:The book is written in a way that is accessible to students and researchers from different disciplinesThe authors are part of the internationally recognised Centre for Synthetic Biology and Innovation and are among the leaders in this field

There is more to the human origins, development, intelligence, and civilization than the epic debate Creationism versus Evolution, simply because there is more to the human condition than what authorities and ideologies determine you to accept today. Therefore, when you study the human origins, you have to expand your research beyond the moment when the first humans detached themselves from the firmament or previous species, since there are other significant events in Humanity's lifespan and achievement defining its timeline. You have to study everything, otherwise you risk understanding these significant events only from simplistic empirical or ideological perspectives, and so you end up learning what you already know while following the crowd throughout unending debates. What you want to learn is the truth, since you are already familiar with all theories, beliefs, and debates regarding the human origins. When you seek to understand the human origins, you seek to understand the origins of life, the nature and origins of this world we call Reality, the nature of the human higher self and intelligence, the origins and debut of human consciousness and intelligent thinking, along with all details related to the Creator of this world, to Life, and to Humankind. While it is relevant to know how all these affect you personally, how they affect your family, your genetic line, and your nation, how your family and genetic line originate, where and how it happened, under what circumstances, and with what status and privileges for you, for your family, for your nation and for the humankind, and this is exactly what we cover throughout this book, in all details and from all perspectives. This book studies the human origins, along with the origins of life, human intelligence, human species, human development, human society, human current civilization and various past civilizations of Earth, integrating humans, their origins, and their original conditions in an elaborate comprehensive model.

Describes the evolution of homes and of family life from ancient times to the present, and shows how changes in building, heating, and furnishing houses affected the family, and different family patterns affected the type of dwelling

Inside the epic quest to find life on the water-rich moons at the outer reaches of the solar system Where is the best place to find life beyond Earth? We often look to Mars as the most promising site in our solar system, but recent scientific missions have revealed that some of the most habitable real estate may actually lie farther away. Beneath the frozen crusts of several of the small, ice-covered moons of Jupiter and Saturn lurk vast oceans that may have existed for as long as Earth, and together may contain more than fifty times its total volume of liquid water. Could there be organisms living in their depths? Alien Oceans reveals the science behind the thrilling quest to find out. Kevin Peter Hand is one of today's leading NASA scientists, and his pioneering research has taken him on expeditions around the world. In this captivating account of scientific discovery, he brings together insights from planetary science, biology, and the adventures of scientists like himself to explain how we know that oceans exist within moons of the outer solar system, like Europa, Titan, and Enceladus. He shows how the exploration of Earth's oceans is informing our understanding of the potential habitability of these icy moons, and draws lessons from what we have learned about the origins of life on our own planet to consider how life could arise on these distant worlds. Alien Oceans describes what lies ahead in our search for life in our solar system and beyond, setting the stage for the transformative discoveries that may await us.

"Focusing on sites of key significance and the world's first civilizations, Ancient Lives is an accessible and engaging textbook which introduces complete beginners to the fascinating worlds of archaeology and prehistory. Drawing on their impressive combined experience of the field and the classroom, the authors uses a jargon-free narrative style to enliven the major developments of more than 3 million years of human life. First introducing the basic principles, methods, and theoretical approaches of archaeology, the book then provides a summary of world prehistory from a global perspective, exploring human origins and the reality of life in the prehistoric world. Later chapters describe the development of agriculture and animal domestication, and the emergence of cities, states, and preindustrial civilizations in widely separated parts of the world. With this new edition updated to reflect the latest discoveries and research in the discipline, Ancient Lives continues to be a comprehensive and essential introduction to archaeology. It will be ideal for students of looking for an accessible guide to the subject."--

An engaging journey into the biological principles underpinning a beloved science-fiction franchise In Star Trek, crew members travel to unusual planets, meet diverse beings, and encounter unique civilizations. Throughout these remarkable space adventures, does Star Trek reflect biology and evolution as we know it? What can the science in the science fiction of Star Trek teach us? In Live Long and Evolve, biologist and die-hard Trekkie Mohamed Noor takes readers on a fun, fact-filled scientific journey. Noor offers Trekkies, science-fiction fans, and anyone curious about how life works a cosmic gateway into introductory biology, including the definitions and origins of life, DNA, reproduction, and evolutionary processes, such as natural selection and genetic drift. For instance, he shows how the rapid change in a population of nanite robots follows basic principles of natural selection that apply to species on Earth. He explains how certain creatures depicted in the series are bisexual, not asexual, and what evolutionary advantage that difference provides. And he considers factors that affect successful interspecies mating and delves into what keeps species distinct. Noor discusses the importance of research and how Star Trek has influenced scientists to engage in cutting-edge work. Giving readers irresistible and entertaining insights, Live Long and Evolve looks at some of the powerful science behind one of the most popular and longest-running science-fiction series.

This book provides new coverage of all the Web developments since the first edition--Netscape, commercial servers, Web development tools--and features an entirely new section on setting up and maintaining a Web server, as well as beefed-up coverage of advanced Web development techniques such as image maps and forms.

Robert B.

OriginsThe Lives and Worlds of Modern CosmologistsCosmochemical Evolution and the Origins of LifeProceedings of the Fourth International Conference on the Origin of Life and the First Meeting of the International Society for the Study of the Origin of Life Barcelona, June 25-28, 1973. Volume I: Invited PapersSpringer

In this engaging, insightful, and inspiring narrative, Hermann Simon, the world-renowned management thinker, consultant, pricing expert, entrepreneur, and leading authority on the "hidden champions" business model, highlights the influences on his remarkable journey from humble origins on a German farm to advising and sharing the stage with global leaders in industry, academia, and politics. Born in 1947 in the rural Eifel region of Western Germany, Simon's coming of age parallels that of a country struggling to come to terms with the legacy of World War II and reinvent itself as a new world power. His colorful anecdotes of a youth spent in an agricultural community that in many ways operated as it had since the Middle Ages, reflect the establishment of core values, such as trust, focus, quality, and commitment that served as an anchor against the accelerating pace of technological, economic, political, social, and cultural change in the subsequent decades. Simon takes readers on a journey through time and space, as his—and our—world transformed from isolated to connected, local to global, revealing lessons learned from the extraordinary people (from Peter Drucker to Henry Kissinger) and places he has encountered along the way, through a career that has evolved from research and education to management consulting to leadership and strategy development on a broad scale. His particular interest in the Mittelstand, or "hidden champions," the small and medium-sized companies that exemplify the

Anschluss, Danzig, Abyssinian crises and the Spanish Civil War. This second edition will ensure that The Origins of the Second World War will remain a high priority student and scholarly reading lists.

If theoretical physicists can seriously entertain canonical "standard models" even for the big-bang generation of the entire universe, why cannot life scientists reach a consensus on how life has emerged and settled on this planet? Scientists are hindered by conceptual gaps between bottom-up inferences (from early Earth geological conditions) and top-down extrapolations (from modern life forms to common ancestral states). This book challenges several widely held assumptions and argues for alternative approaches instead. Primal syntheses (literally or figuratively speaking) are called for in at least five major areas. (1) The first RNA-like molecules may have been selected by solar light as being exceptionally photostable. (2) Photosynthetically active minerals and reduced phosphorus compounds could have efficiently coupled the persistent natural energy flows to the primordial metabolism. (3) Stochastic, uncoded peptides may have kick-started an ever-tightening co-evolution of proteins and nucleic acids. (4) The living fossils from the primeval RNA World thrive within modern cells. (5) From the inherently complex protocellular associations preceding the consolidation of integral genomes, eukaryotic cell organization may have evolved more naturally than simple prokaryote-like life forms. – If this book can motivate dedicated researchers to further explore the alternative mechanisms presented, it will have served its purpose well.

Considers the nature of change, the qualities of the divine, and the origins of contemporary civilization, citing how divergent paths stemming from specific historical events subsequently converged in the modern world.

First published in 2003. Routledge is an imprint of Taylor & Francis, an informa company.

Annotation Papers from the February 1995 conference explore questions of the necessity of homochiral structure, the homochiral prebiotic medium hypothesis, the potential of homochirality to be used as a signature for existing or previous living systems beyond Earth, and experiments seeking to clarify the origin of homochirality. Contains sections on historical perspective, homochirality and life, models of physical chiral symmetry breaking, and future tests. For chemists, chemical physicists, and astrophysicists. No index. Annotation c. by Book News, Inc., Portland, Or.

In a major reinterpretation, Sean McMeekin rejects the standard notion of the war's beginning as either a Germano-Austrian pre-emptive strike or a miscalculation. The key to the outbreak of violence, he argues, lies in St. Petersburg. Russian statesmen unleashed the war through policy decisions based on imperial ambitions in the Near East.

Reflections on Biochemistry: In Honour of Severo Ochoa offers reflections on a wide range of topics relating to biochemistry, including energy metabolism, lipids and saccharides, regulation, nucleic acids and the genetic code, protein biosynthesis, and cell biology. The essays celebrate Severo Ochoa's outstanding contributions to biochemistry spanning nearly half a century. This book is comprised of 47 chapters and begins with a biography of Ochoa and his scientific work in the field of biochemistry, particularly his research on intermediary metabolism, RNA synthesis, and the genetic code. The discussion then turns to energy metabolism, photosynthesis, and fermentation, touching on topics such as the role of lactic acid in the development of biochemistry and the biosynthesis of cell components from acetate. The next section is devoted to lipids, saccharides, and cell walls and includes chapters that deal with biotin, sulfur biochemistry, and dipicolinic acid. Subsequent chapters explore hormonal regulation of adipose tissue lipolysis; the structural relationship between genes and enzymes; bacteriophages, colicins, and ribosomes; and cell biology and neurobiology. This monograph will be of interest to biochemists and students of biochemistry.

Migrant experiences accentuate general aspects of the human condition. Therefore, this volume explores migrant's movements not only as geographical movements from here to there but also as movements that constitute an embodied, cognitive, and existential experience of living "in between" or on the "borderlands" between differently figured life-worlds. Focusing on memories, nostalgia, the here-and-now social experiences of daily living, and the hopes and dreams for the future, the volume demonstrates how all interact in migrants' and refugees' experience of identity and quest for well-being.

Uniquely combining biology and philosophy, this book offers a systematic course in the emergence of life from inanimate matter through to cellular life. With review questions included, this book will appeal to graduate students, academics and researchers in the field of the origin of life and other related areas.

This monograph extends the basic concepts of Darwinian evolution to accommodate recent findings and perspectives from the fields of biology, physics, chemistry and mathematics. It explains how complex systems, contrary to expectations, can spontaneously exhibit degrees of order.

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