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Why humans run the world | Yuval Noah Harari**Real-World Biology Ysis Population**
She co-authored " The Genesis Machine, " which examines the world of synthetic biology ... the Uyghur population in particular, and banking that in a sort of national genetic database without informed ...

How Synthetic Biology Will Revolutionize Science

Policy decisions by the United States will have a critical impact on whether there will soon be peace in Ukraine, or only a much longer and bloodier war.

This second edition provides authoritative guidance on research methodology for plant population ecology. Practical advice is provided to assist senior undergraduates and post-graduate students, and all researchers, design their own field and greenhouse experiments and establish a research programme in plant population ecology.

This book makes Moore's wisdom available to students in a lively, richly illustrated account of the history and workings of life. Employing rhetoric strategies including case histories, hypotheses and deductions, and chronological narrative, it provides both a cultural history of biology and an introduction to the procedures and values of science.

An additional 52 wildlife professionals describe the work of the profession.

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Much of the evolutionary biology that has grabbed headlines in recent years has sprung from the efforts of sociobiologists and evolutionary psychologists to explain sexual features and behavior--even differences between how men and women think--as evolutionary adaptations. They have looked to the forces of natural selection to explain everything from the mimicry of male mockingbirds to female orgasms among humans. In this controversial book, Richard Francis argues that the utility of this approach is greatly exaggerated. He proposes instead a powerful alternative rooted in the latest findings in evolutionary biology as well as research on the workings of our brains, genes, and hormones. Exploring various sexual phenomena, Francis exposes fundamental defects in sociobiology and evolutionary psychology, which he traces to their misguided emphasis on "why" questions at the expense of "how" questions. Francis contends that this preoccupation with "why" questions (such as, "Why won't men ask for directions"?) results in a paranoiac mindset and distorted evolutionary explanations. His alternative framework entails a broader conception of what constitutes an evolutionary explanation, one in which both evolutionary history, as embodied in the tree of life, and developmental processes are brought to the foreground. This alternative framework is also better grounded in basic biology. Deeply learned, consistently persuasive, and always engaging, this book is a welcome antidote to simplistic sociobiological exegeses of animal and human behavior.

Late in a career of more than sixty years, Thomas Burch, an internationally known social demographer, undertook a wide-ranging methodological critique of demography. This open access volume contains a selection of resulting papers, some previously unpublished, some published but not readily accessible. Rejecting the idea that demography is simply a branch of applied statistics, his work views it as an autonomous and complete scientific discipline. When viewed from the perspective of modern philosophy of science, specifically the semantic or model-based school, demography is a balanced discipline, with a rich body of techniques and data, but also with more and better theories than generally recognized. As demonstrated in this book, some demographic techniques can also be seen as theoretical models, and some substantive/behavioral models, commonly rejected as theory because of inconsistent observations, are now seen as valuable theoretical models, for example demographic transition theory. This book shows how demography can build a strong theoretical edifice on its broad and deep empirical foundation by adoption of the model-based approach to science. But the full-fruits of this approach will require demographers to make greater use of computer modeling in the statement and manipulation of theoretical ideas, as well as for numerical computation. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

An essential textbook for any student or researcher in biology needing to design experiments, sample programs or analyse the resulting data. The text begins with a revision of estimation and hypothesis testing methods, covering both classical and Bayesian philosophies, before advancing to the analysis of linear and generalized linear models. Topics covered include linear and logistic regression, simple and complex ANOVA models (for factorial, nested, block, split-plot and repeated measures and covariance designs), and log-linear models. Multivariate techniques, including classification and ordination, are then introduced. Special emphasis is placed on checking assumptions, exploratory data analysis and presentation of results. The main analyses are illustrated with many examples from published papers and there is an extensive reference list to both the statistical and biological literature. The book is supported by a website that provides all data sets, questions for each chapter and links to software.

Explores the relationship between correlation and causation using a series of novel statistical methods.

Are all film stars linked to Kevin Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the links that connect us, and the ways that our decisions can have consequences for others.

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