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The Science of Consequences: How They Affect Genes, Change the Brain, and Impact Our World. by. Susan M. Schneider (Goodreads Author) 3.99 · Rating details · 172 ratings · 13 reviews. Actions have consequences--and the ability to learn from them revolutionized life on earth. While it's easy enough to see that consequences are important (where would we be without positive reinforcement?), few have heard there's a science of consequences, with principles that affect us every day.

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In the first section of the book, “ Consequences and How Nature-Nurture Really Works, ” Schneider begins with a wide lens, showing the effects of consequences in evolution, genetics, and neuroscience before honing in on more specific topics. She ably demonstrates that consequent effects can be seen in places far afield of the kinds of environmental effects typically studied by behavior analysts, and she makes full use of her unifying theme, pointing to the influence of consequences in DNA ...

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Her award-winning book for the public, The Science of Consequences: How They Affect Genes, Change the Brain, and Impact Our World, describes fundamental learning principles, their role in the larger realm of nature-nurture, and their many applications – including the benefits of positive reinforcement-based animal training.

~~Susan Schneider on the Science of Consequences ...~~

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Susan M. Schneider (author); THE SCIENCE OF CONSEQUENCES; Prometheus Books (Nonfiction: Science) 21.00 ISBN: 9781616146627. Byline: Kristen Rabe. The principles of rewards and consequences -- along with stories of Pavlov's dog or the rat in the maze -- are such core assumptions in our culture, they're almost cliché [c]. Susan Schneider quickly moves beyond the cliché [c], however, in her engaging and fast-paced *The Science of Consequences: How They Affect Genes, Change the Brain, and Impact ...*

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Despite their variety, consequences appear to follow a common set of scientific principles and share some similar effects in the brain--such as the "pleasure centers." Nature and nurture always work together, and scientists have demonstrated that learning from consequences predictably activates genes and restructures the brain.

Actions have consequences--and the ability to learn from them revolutionized life on earth. While it's easy enough to see that consequences are important (where would we be without positive reinforcement?), few have heard there's a science of consequences, with principles that affect us every day. Despite their variety, consequences appear to follow a common set of scientific principles and share some similar effects in the brain--such as the "pleasure centers." Nature and nurture always work together, and scientists have demonstrated that learning from consequences predictably activates genes and restructures the brain. Applications are everywhere--at home, at work, and at school, and that's just for starters. Individually and societally, for example, self-control pits short-term against long-term consequences. Ten years in the making, this award-winning book tells a tale ranging from genetics to neurotransmitters, from emotion to language, from parenting to politics, taking an inclusive interdisciplinary approach to show how something so deceptively simple can help make sense of so much.

Looks at the integral part consequences play in everyday life and examines how they impact genes, the neural wiring of the brain, and the nature versus nurture argument.

How data science and the analysis of networks help us solve the puzzle of unintended consequences. Social life is full of paradoxes. Our intentional actions often trigger outcomes that we did not intend or even envision. How do we explain those unintended effects and what can we do to regulate them? In *Decoding the Social World*, Sandra Gonz á lez-Bail ó n explains how data science and digital traces help us solve the puzzle of unintended consequences—offering the solution to a social paradox that has intrigued thinkers for centuries. Communication has always been the force that makes a collection of people more than the sum of individuals, but only now can we explain why: digital technologies have made it possible to parse the information we generate by being social in new, imaginative ways. And yet we must look at that data, Gonz á lez-Bail ó n argues, through the lens of theories that capture the nature of social life. The technologies we use, in the end, are also a manifestation of the social world we inhabit. Gonz á lez-Bail ó n discusses how the unpredictability of social life relates to communication networks, social influence, and the unintended effects that derive from individual decisions. She describes how communication generates social dynamics in

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aggregate (leading to episodes of “ collective effervescence ” ) and discusses the mechanisms that underlie large-scale diffusion, when information and behavior spread “ like wildfire. ” She applies the theory of networks to illuminate why collective outcomes can differ drastically even when they arise from the same individual actions. By opening the black box of unintended effects, Gonz á lez-Bail ó n identifies strategies for social intervention and discusses the policy implications—and how data science and evidence-based research embolden critical thinking in a world that is constantly changing.

This book examines the origins, presence, and implications of scientific thinking in psychology. Scientism embodies the claim that only knowledge attained by means of natural scientific methods counts as valid and valuable. This perspective increasingly dominates thinking and practice in psychology and is seldom acknowledged as anything other than standard scientific practice. This book seeks to make this intellectual movement explicit and to detail the very real limits in both role and reach of science in psychology. The critical chapters in this volume present an alternative perspective to the scholarly mainstreams of the discipline and will be of value to scholars and students interested in the scientific status and the philosophical bases of psychology as a discipline.

The astonishing success of the natural sciences in the modern era has led many thinkers to assume that similar feats of knowledge and power should be achievable in human affairs. That assumption, and the accompanying notion that the methods of modern science ought to be applied to social and political questions, have been at the heart of a number of prominent philosophical schools in the modern age, and much of the politics of the past century. Is the application of scientific logic to the study of human affairs philosophically defensible? Does it aid or hinder our efforts at a genuine understanding of the human world? Why have so many modern ideologies, including those responsible for some of the greatest atrocities of the 20th century, advanced themselves under the banner of science? Why, in other words, do we assume that modern science holds the key to an understanding of human affairs? Are we right to make this assumption? And what does the assumption mean for contemporary society and politics? Tyranny of Reason, which is designed for the interested lay reader and for undergraduate or beginning graduate students in the social sciences, attempts to answer these important questions in the context of the history of philosophy.

The psychology classic—a detailed study of scientific theories of human nature and the possible ways in which human behavior can be predicted and controlled—from one of the most influential behaviorists of the twentieth century and the author of Walden Two. “ This is an important book, exceptionally well written, and logically consistent with the basic premise of the unitary nature of science. Many students of society and culture would take violent issue with most of the things that Skinner has to say, but even those who disagree most will find this a stimulating book. ” —Samuel M. Strong, *The American Journal of Sociology*  
“ This is a remarkable book—remarkable in that it presents a strong, consistent, and all but exhaustive case for a natural science of human behavior. . . . It ought to be. . . .valuable for those whose preferences lie with, as well as those whose preferences stand against, a behavioristic approach to human activity. ” —Harry Prosch, *Ethics*

The basic book about the controversial philosophy known as behaviorism, written by its leading exponent. Bibliography, index.

This book advances understanding of the manifestations, causes, and consequences of generosity. Synthesizing the findings of the 14 research projects conducted by the Science of Generosity Initiative and offering an appendix of methods for studying generosity, this comprehensive account integrates insights from disparate disciplines to facilitate a broader understanding of giving—ultimately creating a compendium of not only the latest research in the field of altruistic behaviors, but also a research roadmap for the future. As the author sequentially explores the manifestations, causes, and consequences of generosity, Patricia Snell Herzog here

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also offers analyses ranging from the micro- to macro-level to paint a full picture of the individual, interpersonal and familial, and collective (inter)actions involved in altruism and generosity. The author concludes with a call to stimulate further interdisciplinary generosity studies, describing the implications for emerging scholars and practitioners across sociology, economics, political science, religious studies, and beyond.

Science is a way of knowing about the world. At once a process, a product, and an institution, science enables people to both engage in the construction of new knowledge as well as use information to achieve desired ends. Access to science — whether using knowledge or creating it — necessitates some level of familiarity with the enterprise and practice of science: we refer to this as science literacy. Science literacy is desirable not only for individuals, but also for the health and well-being of communities and society. More than just basic knowledge of science facts, contemporary definitions of science literacy have expanded to include understandings of scientific processes and practices, familiarity with how science and scientists work, a capacity to weigh and evaluate the products of science, and an ability to engage in civic decisions about the value of science. Although science literacy has traditionally been seen as the responsibility of individuals, individuals are nested within communities that are nested within societies — and, as a result, individual science literacy is limited or enhanced by the circumstances of that nesting. Science Literacy studies the role of science literacy in public support of science. This report synthesizes the available research literature on science literacy, makes recommendations on the need to improve the understanding of science and scientific research in the United States, and considers the relationship between scientific literacy and support for and use of science and research.

In the bestselling tradition of *Stuff Matters* and *The Disappearing Spoon*: a clever and engaging look at materials, the innovations they made possible, and how these technologies changed us. Finalist for the 41st Los Angeles Times Book Award in Science and Technology and selected as one of the Best Summer Science Books Of 2020 by Science Friday. In *The Alchemy of Us*, scientist and science writer Ainissa Ramirez examines eight inventions—clocks, steel rails, copper communication cables, photographic film, light bulbs, hard disks, scientific labware, and silicon chips—and reveals how they shaped the human experience. Ramirez tells the stories of the woman who sold time, the inventor who inspired Edison, and the hotheaded undertaker whose invention pointed the way to the computer. She describes, among other things, how our pursuit of precision in timepieces changed how we sleep; how the railroad helped commercialize Christmas; how the necessary brevity of the telegram influenced Hemingway's writing style; and how a young chemist exposed the use of Polaroid's cameras to create passbooks to track Black citizens in apartheid South Africa. These fascinating and inspiring stories offer new perspectives on our relationships with technologies.

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