

# History & Philosophy of Science 2016



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Cover art: Pieter Brueghel the Elder, The Alchemist (1588, ink on paper). Engraved by Philip Galle. Featured on the cover of The Business of Alchemy by Pamela H. Smith (see page 3).



"Starting with the discovery of x-rays, Timothy Jorgensen explores how each radiation breakthrough was achieved and how we are exposed to radiation, both natural and man-made, in our daily lives. This book contains everything we might want to know about radiation but were afraid to ask." —Jay Burreson, coauthor of Napoleon's Buttons: How Seventeen Molecules Changed History

#### New

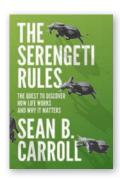
## Strange Glow The Story of Radiation Timothy J. Jorgensen

More than ever before, radiation is a part of our modern daily lives. We own radiation-emitting phones, regularly get diagnostic x-rays, such as mammograms, and submit to full-body security scans at airports. We worry and debate about the proliferation of nuclear weapons and the safety of nuclear power plants. But how much do we really know about radiation? And what are its actual dangers? An accessible blend of narrative history and science, *Strange Glow* describes mankind's extraordinary, thorny relationship with radiation, including the hard-won lessons of how radiation helps and harms our health. Timothy Jorgensen explores how our knowledge of and experiences with radiation in the last century can lead us to smarter personal decisions about radiation exposures today.

Jorgensen introduces key figures in the story of radiation—from Wilhelm Roentgen, the discoverer of x-rays, and pioneering radioactivity researchers Marie and Pierre Curie, to Thomas Edison and the victims of the recent Fukushima Daiichi nuclear power plant accident. Tracing the most important events in the evolution of radiation, Jorgensen explains exactly what radiation is, how it produces certain health consequences, and how we can protect ourselves from harm. He also considers a range of practical scenarios such as the risks of radon in our basements, radiation levels in the fish we eat, questions about cell-phone use, and radiation's link to cancer. Jorgensen empowers us to make informed choices while offering a clearer understanding of broader societal issues.

Investigating radiation's benefits and risks, *Strange Glow* takes a remarkable look at how, for better or worse, radiation has transformed our society.

2016. 512 pages. 17 halftones. 8 line illus. Cl: 978-0-691-16503-5 \$35.00 | £24.95



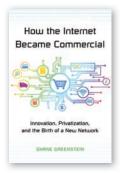
## The Serengeti Rules The Quest to Discover How Life Works and Why It Matters Sean B. Carroll

"The Serengeti Rules is a superb journey of a book written by a scientist of the first rank. Unfolding seamlessly from molecule to ecosystem, it explains with authority and grace why modern biology is central not just to human life but to that of the planet itself."
—Edward O. Wilson, Harvard University

How does life work? How does nature produce the right numbers of zebras and lions on the African savanna, or fish in the ocean? How do our bodies produce the right numbers of cells in our organs and bloodstream? In The Serengeti Rules, award-winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions, and shows how their discoveries matter for our health and the health of the planet we depend upon.

A bold and inspiring synthesis by one of our most accomplished biologists and gifted storytellers, *The Serengeti Rules* is the first book to illuminate how life works at vastly different scales. Read it and you will never look at the world the same way again.

2016. 280 pages. 26 halftones. 18 line illus. 1 map. Cl: 978-0-691-16742-8 \$24.95 | £16.95



#### New

## How the Internet Became Commercial

Innovation, Privatization, and the Birth of a New Network

Shane Greenstein

"Greenstein offers a powerful and lucid account of the way the Internet's exceptional growth arose from unexceptional economic forces. How the Internet Became Commercial is a foundational read for anyone wanting to understand the origins and dynamics of the mainstream Internet."

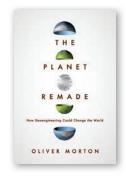
—Jonathan Zittrain, Harvard Law School

In less than a decade, the Internet went from being a series of loosely connected networks used by universities and the military to the powerful commercial engine it is today. This book describes how many of the key innovations that made this possible came from entrepreneurs and iconoclasts who were outside the mainstream—and how the commercialization of the Internet was by no means a foregone conclusion at its outset.

How the Internet Became Commercial demonstrates how, without any central authority, a unique and vibrant interplay between government and private industry transformed the Internet.

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2015. 488 pages. 20 halftones. 8 line illus. 13 tables. CI: 978-0-691-16736-7 \$35.00 | £24.95



#### New

## The Planet Remade How Geoengineering Could Change the World Oliver Morton

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The risks of global warming are pressing and potentially vast. The difficulty of doing without fossil fuels is daunting, possibly even insurmountable. So there is an urgent need to rethink our responses to the crisis. To meet that need, a small but increasingly influential group of scientists is exploring proposals for planned human intervention in the climate system: a stratospheric veil against the sun, the cultivation of photosynthetic plankton, fleets of unmanned ships seeding the clouds. These are the technologies of geoengineering—and as Oliver Morton argues in this visionary book, it would be as irresponsible to ignore them as it would be foolish to see them as a simple solution to the problem.

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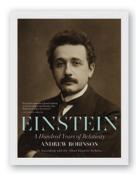
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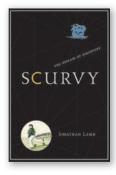
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Diana Kormos Buchwald



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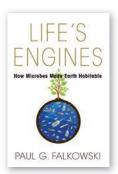
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Jonathan Lamb

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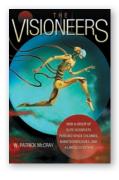
-Ray Monk, Guardian

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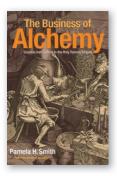
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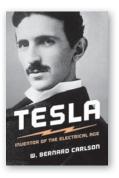


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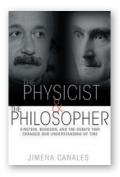
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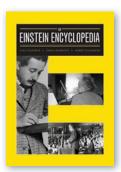
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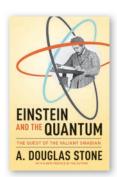
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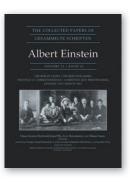
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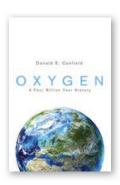
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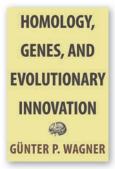
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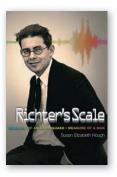
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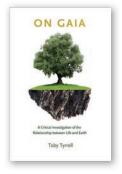
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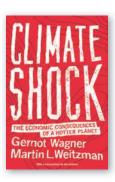
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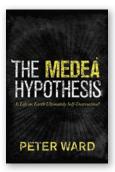
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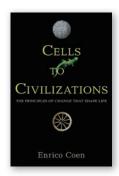
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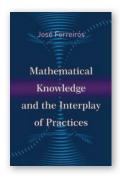
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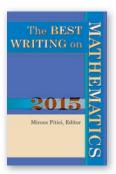


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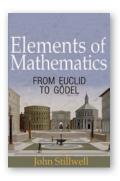
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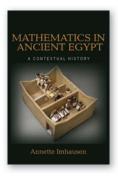
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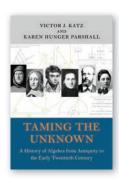
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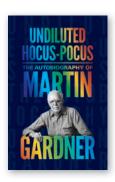
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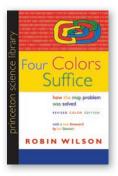
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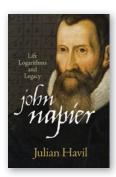
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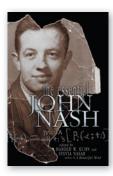
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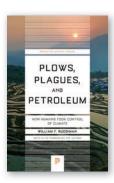


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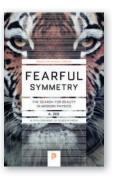
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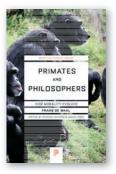
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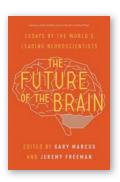
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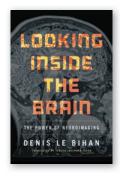
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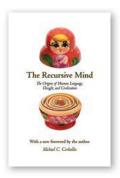
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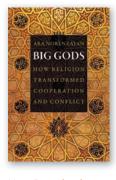


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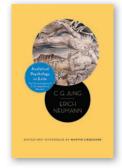
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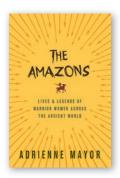
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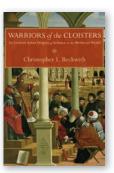
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