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What Do Science, Technology, and Innovation Mean from Africa?

Taming The Sun Innovations To Harness Solar Energy

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ALIJAH GIANCARLO

Taming the Mouse MIT Press

This book combines detailed scientific historical research with characteristic philosophic breadth and verve.

The Sailor's Word-book Bloomsbury Publishing

Distributed across servers, difficult to test, and resistant to modification--modern software is complex. *Grokking Simplicity* is a friendly, practical guide that will change the way you approach software design and development. It introduces a unique approach to functional programming that explains why certain features of software are prone to complexity, and teaches you the functional techniques you can use to simplify these systems so that they're easier to test and debug. Available in PDF (ePub, kindle, and liveBook formats coming soon). about the technology Even experienced developers struggle with software systems that sprawl across distributed servers and APIs, are filled with redundant code, and are difficult to reliably test and modify. Adopting ways of thinking derived from functional programming can help you design and refactor your codebase in ways that reduce complexity, rather than encouraging it. *Grokking Simplicity* lays out how to use functional programming in a professional environment to write a codebase that's easier to test and reuse, has fewer bugs, and is better at handling the asynchronous nature of distributed systems. about the book In *Grokking Simplicity*, you'll learn techniques and, more importantly, a mindset that will help you tackle common problems that arise when software gets complex. Veteran functional programmer Eric Normand guides you to a crystal-clear understanding of why certain features of modern software are so prone to complexity and introduces you to the functional techniques you can use to simplify these systems so that they're easier to read, test, and debug. Through hands-on examples, exercises, and numerous self-assessments, you'll learn to organize your code for maximum reusability and internalize methods to keep unwanted complexity out of your codebase.

Regardless of the language you're using, the ways of thinking in this book will help recognize problematic code and tame even the most complex software. what's inside Apply functional programming principles to reduce codebase complexity Work with data transformation pipelines for code that's easier to test and reuse Tools for modeling time to simplify asynchrony 60 exercises and 100 questions to test your knowledge about the reader For experienced programmers. Examples are in JavaScript. about the author Eric Normand has been a functional programmer since 2001 and has been teaching functional programming online and in person since 2007. Visit LispCast.com to see more of his credentials.

Taming the Wild Horse Cambridge University Press

Clean energy innovation is central to the fight against climate change. To rise to this challenge, the United States should launch a National Energy Innovation Mission. Led by the president and authorized by Congress, this mission should harness the nation's unmatched innovative capabilities-at research universities, federal laboratories, and private firms (both large and small), in all regions of the country-to speed the progress of clean energy technologies. To jumpstart this mission and unlock a virtuous cycle of public and private investment, the US federal government should triple its funding for energy research, development, and demonstration (RD&D) over the next five years to \$25 billion by 2025. "Energizing America" offers policymakers a strategic framework to build a growing RD&D portfolio over the next five years, detailed fundingproposals across the full spectrum of critical energy technologies, and recommendations for immediate action.

Energizing America MIT Press

An optimistic--but realistic and feasible--action plan for fighting climate change while creating new jobs and a healthier environment: electrify everything. Climate change is a planetary emergency. We have to do something now—but what? Saul Griffith has a plan. In *Electrify*, Griffith lays out a detailed blueprint—optimistic but feasible—for fighting climate change while creating millions of new jobs and a healthier environment. Griffith's plan can be summed up simply: electrify everything. He

explains exactly what it would take to transform our infrastructure, update our grid, and adapt our households to make this possible. Billionaires may contemplate escaping our worn-out planet on a private rocket ship to Mars, but the rest of us, Griffith says, will stay and fight for the future. Griffith, an engineer and inventor, calls for grid neutrality, ensuring that households, businesses, and utilities operate as equals; we will have to rewrite regulations that were created for a fossil-fueled world, mobilize industry as we did in World War II, and offer low-interest "climate loans." Griffith's plan doesn't rely on big, not-yet-invented innovations, but on thousands of little inventions and cost reductions. We can still have our cars and our houses—but the cars will be electric and solar panels will cover our roofs. For a world trying to bounce back from a pandemic and economic crisis, there is no other project that would create as many jobs—up to twenty-five million, according to one economic analysis. Is this politically possible? We can change politics along with everything else.

Taming the Sun Bloomsbury Publishing

"At last--a global plan that actually adds up."--James Hansen, former director, NASA Goddard Institute for Space Studies The world must reach negative greenhouse gas emissions by 2050 to avoid the most catastrophic effects of climate change. Yet no single plan has addressed the full scope of the problem--until now. In *The 100% Solution*, Solomon Goldstein-Rose--a leading millennial climate activist and a former Massachusetts state representative--makes clear what needs to happen to hit the 2050 target: the manufacturing booms we must spur, the moonshot projects we must fund, the amount of CO2 we'll have to sequester from the atmosphere, and much more. Most importantly, he shows us the more prosperous and equitable world we can build by uniting the efforts of activists, industries, governments, scientists, and voters to get the job done. This is the guide we've been waiting for. As calls for a WWII-scale mobilization intensify--especially among youth activists--this fully illustrated, action-oriented book arms us with specific demands, sets the stakes for what our leaders must achieve, and proves that with this level of comprehensive thinking we can still take

back our future.

Tomorrow's Economy Princeton University Press

In thirteenth-century China, a Daoist monk named Gao Daokuan (1195-1277) composed a series of illustrated poems and accompanying verse commentary known as the Daoist Horse Taming Pictures. In this annotated translation and study, Louis Komjathy argues that this virtually unknown text offers unique insights into the transformative effects of Daoist contemplative practice. *Taming the Wild Horse* examines Gao's illustrated poems in terms of monasticism and contemplative practice, as well as the multivalent meaning of the "horse" in traditional Chinese culture and the consequences for both human and nonhuman animals. The Horse Taming Pictures consist of twelve poems, ten of which are equine-centered. They develop the metaphor of a "wild" or "untamed" horse to represent ordinary consciousness, which must be reined in and harnessed through sustained self-cultivation, especially meditation. The compositions describe stages on the Daoist contemplative path. Komjathy provides opportunities for reflection on contemplative practice in general and Daoist meditation in particular, which may lead to a transpersonal way of perceiving and being.

The Secret of Our Success MIT Press

10 Lessons That Will Turn Your Business into a Success

Creative People Must Be Stopped Melville House

Drawing from research and examples about resilient cities, this book looks at new initiatives and innovations cities can implement.

Winning Together Island Press

The word Eugenics first appears in this book. Also, in this book, Galton shows mathematically "the results of his experiments on the relations between the powers of visual imagery and of abstract thought."

[The China Mission: George Marshall's Unfinished War, 1945-1947](#)

National Geographic Books

Winner of the Financial Times and Goldman Sachs Business Book of the Year Award 'Brad Stone's definitive book on Amazon and Bezos' The Guardian 'A masterclass in deeply researched investigative financial journalism . . . riveting' The Times The definitive story of the largest and most influential company in the world and the man whose drive and determination changed business forever. Though Amazon.com started off delivering

books through the mail, its visionary founder, Jeff Bezos, was never content with being just a bookseller. He wanted Amazon to become 'the everything store', offering limitless selection and seductive convenience at disruptively low prices. To achieve that end, he developed a corporate culture of relentless ambition and secrecy that's never been cracked. Until now... Jeff Bezos stands out for his relentless pursuit of new markets, leading Amazon into risky new ventures like the Kindle and cloud computing, and transforming retail in the same way that Henry Ford revolutionised manufacturing. Amazon placed one of the first and largest bets on the Internet. Nothing would ever be the same again.

Inquiries Into Human Faculty and Its Development Yale University Press

How our collective intelligence has helped us to evolve and prosper Humans are a puzzling species. On the one hand, we struggle to survive on our own in the wild, often failing to overcome even basic challenges, like obtaining food, building shelters, or avoiding predators. On the other hand, human groups have produced ingenious technologies, sophisticated languages, and complex institutions that have permitted us to successfully expand into a vast range of diverse environments. What has enabled us to dominate the globe, more than any other species, while remaining virtually helpless as lone individuals? This book shows that the secret of our success lies not in our innate intelligence, but in our collective brains—on the ability of human groups to socially interconnect and learn from one another over generations. Drawing insights from lost European explorers, clever chimpanzees, mobile hunter-gatherers, neuroscientific findings, ancient bones, and the human genome, Joseph Henrich demonstrates how our collective brains have propelled our species' genetic evolution and shaped our biology. Our early capacities for learning from others produced many cultural innovations, such as fire, cooking, water containers, plant knowledge, and projectile weapons, which in turn drove the expansion of our brains and altered our physiology, anatomy, and psychology in crucial ways. Later on, some collective brains generated and recombined powerful concepts, such as the lever, wheel, screw, and writing, while also creating the institutions that continue to alter our motivations and perceptions. Henrich shows how our genetics and biology are inextricably interwoven with

cultural evolution, and how culture-gene interactions launched our species on an extraordinary evolutionary trajectory. Tracking clues from our ancient past to the present, *The Secret of Our Success* explores how the evolution of both our cultural and social natures produce a collective intelligence that explains both our species' immense success and the origins of human uniqueness.

Artificial Intelligence in Asset Management Random House
The new edition of this thoroughly considered textbook provides a reliable, accessible and comprehensive guide for students of photovoltaic applications and renewable energy engineering. Written by a group of award-winning authors it is brimming with information and is carefully designed to meet the needs of its readers. Along with exercises and references at the end of each chapter, it features a set of detailed technical appendices that provide essential equations, data sources and standards. The new edition has been fully updated with the latest information on photovoltaic cells, modules, applications and policy. Starting from basics with 'The Characteristics of Sunlight' the reader is guided step-by-step through semiconductors and p-n junctions; the behaviour of solar cells; cell properties and design; and PV cell interconnection and module fabrication. The book covers stand-alone photovoltaic systems; specific purpose photovoltaic systems; remote area power supply systems; grid-connected photovoltaic systems and water pumping. Applied Photovoltaics is highly illustrated and very accessible, providing the reader with all the information needed to start working with photovoltaics.

The 100% Solution Oxford University Press, USA

Innovation: Perspectives for the 21st Century, has been published by the BBVA Group. The motivation behind this publication is to disseminate expert knowledge on the key issues shaping the future course of the 21st century and relay this knowledge to soc
[The Age of Surveillance Capitalism](#) Island Press

A behind-the-scenes look at the firm behind WordPress.com and the unique work culture that contributes to its phenomenal success 50 million websites, or twenty percent of the entire web, use WordPress software. The force behind WordPress.com is a convention-defying company called Automattic, Inc., whose 120 employees work from anywhere in the world they wish, barely use email, and launch improvements to their products dozens of times a day. With a fraction of the resources of Google, Amazon, or Facebook, they have a similar impact on the future of the

Internet. How is this possible? What's different about how they work, and what can other companies learn from their methods? To find out, former Microsoft veteran Scott Berkun worked as a manager at WordPress.com, leading a team of young programmers developing new ideas. *The Year Without Pants* shares the secrets of WordPress.com's phenomenal success from the inside. Berkun's story reveals insights on creativity, productivity, and leadership from the kind of workplace that might be in everyone's future. Offers a fast-paced and entertaining insider's account of how an amazing, powerful organization achieves impressive results. Includes vital lessons about work culture and managing creativity. Written by author and popular blogger Scott Berkun (scottberkun.com). *The Year Without Pants* shares what every organization can learn from the world-changing ideas for the future of work at the heart of Automattic's success.

The Halo Effect MIT Press

A fresh, original history of America's national narratives, told through the loss, recovery, and rise of one influential Puritan sermon from 1630 to the present day. In this illuminating book, Abram Van Engen shows how the phrase "City on a Hill," from a 1630 sermon by Massachusetts Bay governor John Winthrop, shaped the story of American exceptionalism in the twentieth century. By tracing the history of Winthrop's speech, its changing status throughout time, and its use in modern politics, Van Engen asks us to reevaluate our national narratives. He tells the story of curators, librarians, collectors, archivists, antiquarians, and often anonymous figures who emphasized the role of the Pilgrims and Puritans in American history, paving the way for the saving and sanctifying of a single sermon. This sermon's rags-to-riches rise reveals the way national stories take shape and shows us how those tales continue to influence competing visions of the country—the many different meanings of America that emerge from its literary past.

The Everything Store: Jeff Bezos and the Age of Amazon MIT Press

An Economist Best Book of 2018. A spellbinding narrative of the high-stakes mission that changed the course of America, China, and global politics—and a rich portrait of the towering, complex figure who carried it out. As World War II came to an end, General George Marshall was renowned as the architect of Allied victory. Set to retire, he instead accepted what he thought was a final

mission—this time not to win a war, but to stop one. Across the Pacific, conflict between Chinese Nationalists and Communists threatened to suck in the United States and escalate into revolution. His assignment was to broker a peace, build a Chinese democracy, and prevent a Communist takeover, all while staving off World War III. In his thirteen months in China, Marshall journeyed across battle-scarred landscapes, grappled with Mao Zedong and Zhou Enlai, and plotted and argued with Generalissimo Chiang Kai-shek and his brilliant wife, often over card games or cocktails. The results at first seemed miraculous. But as they started to come apart, Marshall was faced with a wrenching choice. Its consequences would define the rest of his career, as the secretary of state who launched the Marshall Plan and set the standard for American leadership, and the shape of the Cold War and the US-China relationship for decades to come. It would also help spark one of the darkest turns in American civic life, as Marshall and the mission became a first prominent target of McCarthyism, and the question of "who lost China" roiled American politics. *The China Mission* traces this neglected turning point and forgotten interlude in a heroic career—a story of not just diplomatic wrangling and guerrilla warfare, but also intricate spycraft and charismatic personalities. Drawing on eyewitness accounts both personal and official, it offers a richly detailed, gripping, close-up, and often surprising view of the central figures of the time—from Marshall, Mao, and Chiang to Eisenhower, Truman, and MacArthur—as they stood face-to-face and struggled to make history, with consequences and lessons that echo today.

Renewables Simon and Schuster

From award-winning Financial Times journalist Gillian Tett, who enraged Wall Street leaders with her news-breaking warnings of a crisis more than a year ahead of the curve, *Fool's Gold* tells the astonishing unknown story at the heart of the 2008 meltdown. Drawing on exclusive access to J.P. Morgan CEO Jamie Dimon and a tightly bonded team of bankers known on Wall Street as the "Morgan Mafia," as well as in-depth interviews with dozens of other key players, including Treasury Secretary Timothy Geithner, Tett brings to life in gripping detail how the Morgan team's bold ideas for a whole new kind of financial alchemy helped to ignite a revolution in banking, and how that revolution escalated wildly out of control. The deeply reported and lively narrative takes readers behind the scenes, to the inner sanctums of elite finance

and to the secretive reaches of what came to be known as the "shadow banking" world. The story begins with the intense Morgan brainstorming session in 1994 beside a pool in Boca Raton, where the team cooked up a dazzling new idea for the exotic financial product known as credit derivatives. That idea would rip around the banking world, catapult Morgan to the top of the turbocharged derivatives trade, and fuel an extraordinary banking boom that seemed to have unleashed banks from age-old constraints of risk. But when the Morgan team's derivatives dream collided with the housing boom, and was perverted—through hubris, delusion, and sheer greed—by titans of banking that included Citigroup, UBS, Deutsche Bank, and the thundering herd at Merrill Lynch—even as J.P. Morgan itself stayed well away from the risky concoctions others were peddling—catastrophe followed. Tett's access to Dimon and the J.P. Morgan leaders who so skillfully steered their bank away from the wild excesses of others sheds invaluable light not only on the untold story of how they engineered their bank's escape from carnage but also on how possible it was for the larger banking world, regulators, and rating agencies to have spotted, and heeded, the terrible risks of a meltdown. A tale of blistering brilliance and willfully blind ambition, *Fool's Gold* is both a rare journey deep inside the arcane and wildly competitive world of high finance and a vital contribution to understanding how the worst economic crisis since the Great Depression was perpetrated.

Vinegar Girl Tyndale House Publishers, Inc.

Caldecott Medalist Chris Raschka shares his love of jazz great Sun Ra, just in time to mark the centennial of the musician's birth. Jazz musician Sun Ra (1914-1993) always said that he came from Saturn. Being from another planet, he was naturally intrigued by everything earthly — especially music, because music is the one thing on Earth most like the stars. Earthlings themselves confused Sun Ra, the way they sorted themselves by color and fought wars against one another. So he made music. And he traveled with other musicians and singers, calling themselves the Sun Ra Arkestra, playing, singing, and dancing for people all over the planet. Because music, he said, is what holds us all together. Join acclaimed author-illustrator Chris Raschka in celebrating a legend of the jazz world who was truly one of a kind.

The Year Without Pants Council on Foreign Relations Press

How solar could spark a clean-energy transition through transformative innovation—creative financing, revolutionary technologies, and flexible energy systems. Solar energy, once a niche application for a limited market, has become the cheapest and fastest-growing power source on earth. What's more, its potential is nearly limitless—every hour the sun beams down more energy than the world uses in a year. But in *Taming the Sun*, energy expert Varun Sivaram warns that the world is not yet equipped to harness erratic sunshine to meet most of its energy needs. And if solar's current surge peters out, prospects for replacing fossil fuels and averting catastrophic climate change will dim. Innovation can brighten those prospects, Sivaram explains, drawing on firsthand experience and original research spanning science, business, and government. Financial innovation is already enticing deep-pocketed investors to fund solar projects around the world, from the sunniest deserts to the poorest

villages. Technological innovation could replace today's solar panels with coatings as cheap as paint and employ artificial photosynthesis to store intermittent sunshine as convenient fuels. And systemic innovation could add flexibility to the world's power grids and other energy systems so they can dependably channel the sun's unreliable energy. Unleashing all this innovation will require visionary public policy: funding researchers developing next-generation solar technologies, refashioning energy systems and economic markets, and putting together a diverse clean energy portfolio. Although solar can't power the planet by itself, it can be the centerpiece of a global clean energy revolution. A Council on Foreign Relations Book

[The Sociology of Religion](#) W. W. Norton & Company

'A thoroughly modern love story' Guardian, Book of the Year Kate Battista is stuck. How did she end up running house and home for

her eccentric scientist father and infuriating younger sister Bunny? Dr Battista has other problems. His brilliant young lab assistant, Pyotr, is about to be deported. And without Pyotr, his new scientific breakthrough will fall through... When Dr Battista cooks up an outrageous plan that will enable Pyotr to stay in the country, he's relying - as usual - on Kate to help him. Will Kate be able to resist the two men's touchingly ludicrous campaign to win her round? Anne Tyler's brilliant retelling of *The Taming of the Shrew* asks whether a thoroughly modern woman like Kate would ever sacrifice herself for a man. The answer is as surprising as Kate herself. ****ANNE TYLER HAS SOLD OVER 8 MILLION BOOKS WORLDWIDE**** 'Anne Tyler takes the ordinary, the small, and makes them sing' Rachel Joyce 'She knows all the secrets of the human heart' Monica Ali 'A masterly author' Sebastian Faulks 'I love Anne Tyler. I've read every single book she's written' Jacqueline Wilson

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