Bicycling Science

David Gordon Wilson and Theodor Schmidt

with contributions by Jim Papadopoulos

"Full of interesting material to ponder
while pedaling down the road."
– Jearl Walker, *American Journal of Physics*

fourth edition

[DOC] Bicycling Science (The MIT Press)

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Bicycling Science-David Gordon Wilson 2004 A new, updated edition of a popular book on the history, science, and engineering of bicycles. The bicycle is almost unique among human-powered machines in that it uses human muscles in a near-optimum way. This new edition of the bible of bicycle builders and bicyclists provides just about everything you could want to know about the history of bicycles, how human beings propel them, what makes them go faster, and what keeps them from going even faster. The scientific and engineering information is of interest not only to designers and builders of bicycles and other human-powered vehicles but also to competitive cyclists, bicycle commuters, and recreational cyclists. The third edition begins with a brief history of bicycles and bicycling that demolishes many widespread myths. This edition includes information on recent experiments and achievements in human-powered transportation, including the "ultimate human-powered vehicle," in which a supine rider in a streamlined enclosure steers by looking at a television screen connected to a small camera in the nose, reaching speeds of around 80 miles per hour. It contains completely new chapters on aerodynamics, unusual human-powered machines for use on land and in water and air, human physiology, and the future of bicycling. This edition also provides updated information on rolling drag, transmission of power from rider to wheels, braking, heat management, steering and stability, power and speed, and materials. It contains many new illustrations.

Bicycling Science-Frank Rowland Whitt 1990

City Cycling-John Pucher 2012-10-19 A guide to today's urban cycling renaissance, with information on cycling's health benefits, safety, bikes and bike equipment, bike lanes, bike sharing, and other topics. Bicycling in cities is booming, for many reasons: health and environmental benefits, time and cost savings, more and better bike lanes and paths, innovative bike sharing programs, and the sheer fun of riding. City Cycling offers a guide to this urban cycling renaissance, with the goal of promoting cycling as sustainable urban transportation available to everyone. It reports on cycling trends and policies in cities in North America, Europe, and Australia, and offers information on such topics as cycling safety, cycling infrastructure provisions including bikeways and bike parking, the wide range of bike designs and bike equipment, integration of cycling with public transportation, and promoting cycling for women and children. City Cycling emphasizes that bicycling should not be limited to those who are highly trained, extremely fit, and daring enough to battle traffic on busy roads. The chapters describe ways to make city cycling feasible, convenient, and safe for commutes to work and school, shopping trips, visits, and other daily transportation needs. The book also offers detailed examinations and illustrations of cycling conditions in different urban environments: small cities (including Davis, California, and Delft, the Netherlands), large cities (including Sydney, Chicago, Toronto and Berlin), and "megacities" (London, New York, Paris, and Tokyo). These chapters offer a closer look at how cities both with and without historical cycling cultures have developed cycling programs over time. The book makes clear that successful promotion of city cycling depends on coordinating infrastructure, programs, and government policies.

Bicycle Transportation-John Forester 1994 This new edition of John Forester's handbook for transportation policy makers and bicycling advocates has been completely rewritten to reflect changes of the last decade. It includes new chapters on European bikeway engineering, city planning, integration with mass transit and long-distance carriers, "traffic calming," and the art of encouraging private-sector support for bicycle commuting.A professional engineer and an avid bicyclist, John Forester combined those interests in founding the discipline of cycling transportation engineering, which regards bicycling as a form of vehicular transportation equal to any other form of transportation. Forester, who believes that riding a bicycle along streets with traffic is safer than pedaling on restricted bike paths and bike lanes, argues the case for cyclists' rights with zeal and with statistics based on experience, traffic studies, and roadway design standards. Over the nearly two decades since Bicycle Transportation was first published, he has brought about many changes in the national standards for highways, bikeways, bicycles, and traffic laws. His Effective Cycling Program continues to grow.

Bicycle Design-Tony Hadland 2014-03-28 An authoritative and comprehensive account of the bicycle's two-hundred-year evolution. The bicycle ranks as one of the most enduring, most widely used vehicles in the world, with more than a billion produced during almost two hundred years of cycling history. This book offers an authoritative and comprehensive account of the bicycle's technical and historical evolution, from the earliest velocipedes (invented to fill the need for horseless transport during a shortage of oats) to modern racing bikes, mountain bikes, and recumbents. It traces the bicycle's development in terms of materials, ergonomics, and vehicle physics, as carried out by inventors, entrepreneurs, and manufacturers. Written by two leading bicycle historians and generously illustrated with historic drawings, designs, and photographs, Bicycle Design describes the key stages in the evolution of the bicycle, beginning with the counterintuitive idea of balancing on two wheels in line, through the development of tension-spoked wheels, indirect drives (employing levers, pulleys, chains, and chainwheels), and pneumatic tires. The authors examine the further development of the bicycle for such specific purposes as racing, portability, and all-terrain use; and they describe the evolution of bicycle components including seats, transmission, brakes, lights (at first candle-based), and carriers (racks, panniers, saddlebags, child seats, and sidecars). They consider not only commercially successful designs but also commercial failures that pointed the way to future technological developments. And they debunk some myths about bicycles—for example, the mistaken but often-cited idea that Leonardo sketched a chain-drive bike in his notebooks. Despite the bicycle's long history and mass appeal, its technological history has been neglected. This volume, with its engaging and wide-ranging coverage, fills that gap. It will be the starting point for all future histories of the bicycle.

Bicycling Science-David Gordon Wilson 2020 An updated edition of a classic: an indispensable companion for a new era in cycling.

Cycling for Sustainable Cities-Ralph Buehler 2021 "A guide to all things cycling: present and future, local and global"--

Cycling Science-Max Glaskin 2019-02-07 Investigating the scientific wonders that keep the cyclist in the saddle and explaining how the bike and rider work together, this fascinating book is the perfect way to analyse your own kit and technique by showing you the techniques of the professionals. Each chapter investigates a different area of physics or technology and is organised around a series of questions; What is the frame design? How have bicycle wheels evolved? What muscle groups does cycling exploit? How much power does a professional cyclist generate? Each question is investigated using explanatory infographics and illustrations to clarify the answers. Dip into the book for answers to specific questions or read it right through for a complete overview of how machine and rider work together. At its heart, the simple process of getting about on two wheels contains a wealth of fascinating science.

Bikes and Bloomers-Kat Jungnickel 2018-05-04 An illustrated history of the evolution of British women's cycle wear. The bicycle in Victorian Britain is often celebrated as a vehicle of women's liberation. Less noted is another critical technology with which women forged new and mobile public lives—cycle wear. This illustrated account of women's cycle wear from Goldsmiths Press brings together Victorian engineering and radical feminist invention to supply a missing chapter in the history of feminism. Despite its benefits, cycling was a material and ideological minefield for women. Conventional fashions were unworkable, with skirts catching in wheels and tangling in pedals. Yet wearing "rational" cycle wear could provoke verbal and sometimes physical abuse from those threatened by newly mobile women. Seeking a solution, pioneering women not only imagined, made, and wore radical new forms of cycle wear but also patented their inventive designs. The most remarkable of these were convertible costumes that enabled wearers to transform ordinary clothing into cycle wear. Drawing on in-depth archival research and inventive practice, Kat Jungnickel brings to life in rich detail the little-known stories of six inventors of the 1890s. Alice Bygrave, a dressmaker of Brixton, registered four patents for a skirt with a dual pulley system built into its seams. Julia Gill, a court dressmaker of Haverstock Hill, patented a skirt that drew material up the waist using a mechanism of rings or eyelets. Mary and Sarah Pease, sisters from York, patented a skirt that could be quickly converted into a fashionable high-collar cape. Henrietta Müller, a women's rights activist of Maidenhead, patented a three-part cycling suit with a concealed system of loops and buttons to elevate the skirt. And Mary Ann Ward, a gentlewoman of Bristol, patented the "Hyde Park Safety Skirt," which gathered fabric at intervals using a series of side buttons on the skirt. Their unique contributions to cycling's past continue to shape urban life for contemporary mobile women.

Cycling and Cinema-Bruce Bennett 2019-04-30 A unique exploration of the history of the bicycle in cinema, from Hollywood blockbusters and slapstick comedies to documentaries, realist dramas, and experimental films. Cycling and Cinema explores the history of the bicycle in cinema from the late nineteenth century through to the present day. In this new book from Goldsmiths Press, Bruce Bennett examines a wide variety of films from around the world, ranging from Hollywood blockbusters and slapstick comedies to documentaries, realist dramas, and experimental films, to consider the complex, shifting cultural significance of the bicycle. The bicycle is an everyday technology, but in examining the ways in which bicycles are used in films, Bennett reveals the rich social and cultural importance of this apparently unremarkable machine. The cinematic bicycles discussed in this book have various functions. They are the source of absurd comedy in silent films, and the vehicles that allow their owners to work in sports films and social realist cinema. They are a means of independence and escape for children in melodramas and kids' films, and the tools that offer political agency and freedom to women, as depicted in films from around the world. In recounting the cinematic history of the bicycle, Bennett reminds us that this machine is not just a practical means of transport or a child's toy, but the vehicle for a wide range of meanings concerning individual identity, social class, nationhood and belonging, family, gender, and sexuality and pleasure. As this book shows, two hundred years on from its invention, the bicycle is a revolutionary technology that retains the power to transform the world.

Effective Cycling-John Forester 1984 Tells how to select, maintain, and repair a bicycle, describes basic cycling skills, and discusses traffic, accident prevention, cycling clubs, and commuting

Democratizing Innovation-Eric Von Hippel 2006-02-17 The process of user-centered innovation: how it can benefit both users and manufacturers and how its emergence will bring changes in business models and in public policy. Innovation is rapidly becoming democratized. Users, aided by improvements in computer and communications technology, increasingly can develop their own new products and services. These innovating users—both individuals and firms—often freely share their innovations with others, creating user-innovation communities and a rich intellectual commons. In Democratizing Innovation, Eric von Hippel looks closely at this emerging system of user-centered innovation. He explains why and when users find it profitable to develop new products and services for themselves, and why it often pays users to reveal their innovations freely for the use of all.The trend toward democratized innovation can be seen in software and information products—most notably in the free and open-source software movement—but also in physical products. Von Hippel's many examples of user innovation in action range from surgical equipment to surfboards to software security features. He shows that product and service development is concentrated among "lead users," who are ahead on marketplace trends and whose innovations are often commercially attractive. Von Hippel argues that manufacturers should redesign their innovation processes and that they should systematically seek out innovations developed by users. He points to businesses—the custom semiconductor industry is one example—that have learned to assist user-innovators by providing them with toolkits for developing new products. User innovation has a positive impact on social welfare, and von Hippel proposes that government policies, including R&D subsidies and tax credits, should be realigned to eliminate biases against it. The goal of a democratized user-centered innovation system, says von Hippel, is well worth striving for. An electronic version of this book is available under a Creative Commons license.

Bicycles & Tricycles-Archibald Sharp 2018-10-10 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Bicycle Design-Mike Burrows 2008 Mike Burrows is a legend and this is the long awaited masterwork - revised and updated in this new edition - from the world's most famous and irreverent bicycle designer and inventor. Bicycle Design is the essential handbook if you want to know how to go faster, or if you simply love cycle technology. Inside you'll find no-nonsense explanations of everything from aerodynamics to suspension forks.

Bicycle-David V. Herlihy 2004-01-01 The nineteenth century's "mechanical horse" offered an exciting new world of transportation for all and ushered in an era of changes that resonates to the present day, changes cataloged and described in a fascinating history of an engineering marvel.

The Design of High-Efficiency Turbomachinery and Gas Turbines, second edition, with a new preface-David Gordon Wilson 2014-09-05 The second edition of a comprehensive textbook that introduces turbomachinery and gas turbines through design methods and examples. This comprehensive textbook is unique in its design-focused approach to turbomachinery and gas turbines. It offers students and practicing engineers methods for configuring these machines to perform with the highest possible efficiency. Examples and problems are based on the actual design of turbomachinery and turbines. After an introductory chapter that outlines the goals of the book and provides definitions of terms and parts, the book offers a brief review of the basic principles of thermodynamics and efficiency definitions. The rest of the book is devoted to the analysis and design of real turbomachinery configurations and gas turbines, based on a consistent application of thermodynamic

theory and a more empirical treatment of fluid dynamics that relies on the extensive use of design charts. Topics include turbine power cycles, diffusion and diffusers, the analysis and design of three-dimensional free-stream flow, and combustion systems and combustion calculations. The second edition updates every chapter, adding material on subjects that include flow correlations, energy transfer in turbomachines, and three-dimensional design. A solutions manual is available for instructors. This new MIT Press edition makes a popular text available again, with corrections and some updates, to a wide audience of students, professors, and professionals.

The Art of Insight in Science and Engineering-Sanjoy Mahajan 2014-11-07 In this book, Sanjoy Mahajan shows us that the way to master complexity is through insight rather than precision. Precision can overwhelm us with information, whereas insight connects seemingly disparate pieces of information into a simple picture. Unlike computers, humans depend on insight. Based on the author's fifteen years of teaching at MIT, Cambridge University, and Olin College, The Art of Insight in Science and Engineering shows us how to build insight and find understanding, giving readers tools to help them solve any problem in science and engineering.To master complexity, we can organize it or discard it. The Art of Insight in Science and Engineering first teaches the tools for organizing complexity, then distinguishes the two paths for discarding complexity: with and without loss of information. Questions and problems throughout the text help readers master and apply these groups of tools. Armed with this three-part toolchest, and without complicated mathematics, readers can estimate the flight range of birds and planes and the strength of chemical bonds, understand the physics of pianos and xylophones, and explain why skies are blue and sunsets are red.The Art of Insight in Science and Engineering will appear in print and online under a Creative Commons Noncommercial Share Alike license.

Data Feminism-Catherine D'Ignazio 2020-03-31 A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. Today, data science is a form of power. It has been used to expose injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In Data Feminism, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They explain how, for example, an understanding of emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever "speak for themselves." Data Feminism offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But Data Feminism is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed.

John Knight-Andre Rottmann 2014 For more than four decades, the elusive but influential Los Angeles-based artist John Knight has developed a practice of site specificity that tests both architectural and ideological boundaries of the museum, gallery, and public sphere. Knight's works defy notions of stylistic coherence, even, at times, of instant recognizability. Grounded in a sustained method of inhabiting the material, discursive and economic conditions of varied sites, his works systematically challenge notions of object, sign, context, authorship, and value, and they confront audiences not only with mailers, posters, and journals but also with carpenter levels, commemorative plates, deck chairs, bicycle bells, flower arrangements, and credit cards. This volume offers essays and interviews that trace the critical thinking on Knight, discussing the artist's trajectory from 1969 to 2011. These texts, by such prominent figures as Benjamin H. D. Buchloh, Anne Rorimer, Alexander Alberro, and Birgit Pelzer, offer close readings of Knight's pivotal projects in situ while also considering them in terms of such art-historical paradigms as the readymade, the anti-aesthetic, institutional critique, and the relationship between art and design as well as corporate culture at large. The book provides the first collection of these often hard-to-find texts on Knight and will serve as an essential guide for further consideration of his oeuvre.

Cycling Science-Cheung, Stephen S. 2017-06-01 Authoritative, yet accessible, this guide provides the latest on science and technology from the world's top cycling coaches and researchers. Comprehensive and cutting edge, coverage includes the rider–machine interface, environmental stressors, health issues, the planning of training programs, racing techniques, and more.

Biomechanics of Movement-Thomas K. Uchida 2021-01-12 An engaging introduction to human and animal movement seen through the lens of mechanics. How do Olympic sprinters run so fast? Why do astronauts adopt a bounding gait on the moon? How do running shoes improve performance while preventing injuries? This engaging and generously illustrated book answers these questions by examining human and animal movement through the lens of mechanics. The authors present simple conceptual models to study walking and running and apply mechanical principles to a range of interesting examples. They explore the biology of how movement is produced, examining the structure of a muscle down to its microscopic force-generating motors. Drawing on their deep expertise, the authors describe how to create simulations that provide insight into muscle coordination during walking and running, suggest treatments to improve function following injury, and help design devices that enhance human performance.

Idea Colliders-Michael John Gorman 2020-09-15 A provocative call for the transformation of science museums into "idea colliders" that spark creative collaborations and connections. Today's science museums descend from the Kunst-und Wunderkammern of the Renaissance--collectors' private cabinets of curiosities--through the Crystal Palace exhibition of 1851 to today's "interactive" exhibits promising educational fun. In this book, Michael John Gorman issues a provocative call for the transformation of science museums and science centers from institutions dedicated to the transmission of cultural capital to dynamic "idea colliders" that spark creative collaborations and connections. This new kind of science museum would not stage structured tableaux of science facts but would draw scientists into conversation with artists, designers, policymakers, and the public. Rather than insulating visitors from each other with apps and audio guides, the science museum would consider each visitor a resource, bringing questions, ideas, and experiences from a unique perspective.

Atomic Zombie's Bicycle Builder's Bonanza-Brad Graham 2003-11-04 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. ATOMIC ZOMBIE'S BICYCLE BUILDER'S BONANZA SUPERBIKES (FOR STINGY BUDGETS) For bicycle lovers, tinkerers, and inventors, this dream resource offers hours of fun, creativity, and adventure. If you have standard workshop tools, Atomic Zombie's Bicycle Builder's Bonanza provides everything else you need to create cool custom bicycles on a shoestring budget. You'll find exciting plans for choppers, low racers, tall bikes, recumbents, tandems, and others that defy description. You'll learn how easy -- and cheap -- it can be to build machines with names like Marauder, Sky Cycle, and Hammerhead -- to construct bicycles whose profiles will make you gasp -- and to make your own recumbent bike that can speed along at 80 kph on the flats. This book shows you how to build them all, complete with photos and detailed instructions! Written by long-time bike hobbyist and inventor Brad Graham, founder and host of the atomiczombie.com bicycle builder's Web site, and creator of the world's tallest bike, this value-packed, heavily illustrated manual offers an exciting range of resources from complete custom bike plans to details on working with tools and customizing bikes you already own.

Of Bicycles, Bakelites, and Bulbs-Wiebe E. Bijker 1997 The stories of the safety bicycle, the first truly synthetic plastic, and the fluorescent light bulb - each a fascinating case study in itself- reflect a cross-section of time periods, engineering and scientific disciplines, and economic, social, and political cultures. The bicycle story explores such issues as the role of changing gender relationships in shaping a technology; the Bakelite story examines the ways in which social factors intrude even in cases of seemingly pure chemistry and entrepreneurship; and the fluorescent bulb story offers insights into the ways in which political and economic relationships can affect the form of a technology.

Custom Bicycles-Christine Elliott 2009 A unique study of the names and bikes of the world's most famous, innovative and legendary makers of contemporary bespoke bicycles.

Entanglements-Simone Tosoni 2016-11-11 Conversations with a founder of the influential Social Construction of Technology (SCOT) approach in science and technology studies offer an introduction to the field.

The Social Construction of Technological Systems-Wiebe E. Bijker 2012 An anniversary edition of an influential book that introduced a groundbreaking approach to the study of science, technology, and society. This pioneering book, first published in 1987, launched the new field of social studies of technology. It introduced a method of inquiry--social construction of technology, or SCOT--that became a key part of the wider discipline of science and technology studies. The book helped the MIT Press shape its STS list and inspired the Inside Technology series. The thirteen essays in the book tell stories about such varied technologies as thirteenth-century galleys, eighteenth-century cooking stoves, and twentieth-century missile systems. Taken together, they affirm the fruitfulness of an approach to the study of technology that gives equal weight to technical, social, economic, and political questions, and they demonstrate the illuminating effects of the integration of empirics and theory. The approaches in this volume--collectively called SCOT (after the volume's title) have since broadened their scope, and twenty-five years after the publication of this book, it is difficult to think of a technology that has not been studied from a SCOT perspective and impossible to think of a technology that cannot be studied that way.

Designing Transportation Systems for Older Adults-Carryl L. Baldwin 2019-06-06 This book provides comprehensive information needed to assist with all aspects of designing, delivering, or evaluating transportation systems for use by older adults, and presents the necessary background on aging and human factors issues as well as practical guidelines needed to accommodate older adult transport users. Features Presents clear design guidance aimed at improving usability among older adults, a too often neglected but fast-growing segment of the transportation system population Includes comprehensive coverage of transportation systems, including the notably important issue of older drivers, but also additional transportation forms including public transportation via bus and subway, air transport, rail, bicycle, and even pedestrians Offers numerous examples throughout of best practices based on both the scientific literature and the content expertise of the authors Discusses practical implications of incorporating the recommended design principles for both older adults and other transport system users Provides useful background about normal age-related changes in sensory, cognitive, and physical abilities that impact older adults and how they interact with transportation systems

Reconsidering the Bicycle-Luis A. Vivanco 2013-03-05 In cities throughout the world, bicycles have gained a high profile in recent years, with politicians and activists promoting initiatives like bike lanes, bikeways, bike share programs, and other social programs to get more people on bicycles. Bicycles in the city are, some would say, the wave of the future for car-choked, financially-strapped, obese, and sustainability-sensitive urban areas. This book explores how and why people are reconsidering the bicycle, no longer thinking of it simply as a toy or exercise machine, but as a potential solution to a number of contemporary problems. It focuses in particular on what reconsidering the bicycle might mean for everyday practices and politics of urban mobility, a concept that refers to the intertwined physical, technological, social, and experiential dimensions of human movement. This book is for Introductory Anthropology, Cultural Anthropology, Cultural Sociology, Environmental Anthropology, and all undergraduate courses on the environment and on sustainability throughout the social sciences.

Visual Insights-Katy Börner 2014-01-24 A guide to the basics of information visualization that teaches nonprogrammers how to use advanced data mining and visualization techniques to design insightful visualizations. In the age of Big Data, the tools of information visualization offer us a macroscope to help us make sense of the avalanche of data available on every subject. This book offers a gentle introduction to the design of insightful information visualizations. It is the only book on the subject that teaches nonprogrammers how to use open code and open data to design insightful visualizations. Readers will learn to apply advanced data mining and visualization techniques to make sense of temporal, geospatial, topical, and network data. The book, developed for use in an information visualization MOOC, covers data analysis algorithms that enable extraction of patterns and trends in data, with chapters devoted to "when" (temporal data), "where" (geospatial data), "what" (topical data), and "with whom" (networks and trees); and to systems that drive research and development. Examples of projects undertaken for clients include an interactive visualization of the success of game player activity in World of Warcraft; a visualization of 311 number adoption that shows the diffusion of non-emergency calls in the United States; a return on investment study for two decades of HIV/AIDS research funding by NIAID; and a map showing the impact of the HiveNYC Learning Network. Visual Insights will be an essential resource on basic information visualization techniques for scholars in many fields, students, designers, or anyone who works with data.

Our Moral Fate-Allen Buchanan 2020-03-24 A provocative and probing argument showing how human beings can for the first time in history take charge of their moral fate. Is tribalism—the political and cultural divisions between Us and Them—an inherent part of our basic moral psychology? Many scientists link tribalism and morality, arguing that the evolved "moral mind" is tribalistic. Any escape from tribalism, according to this thinking, would be partial and fragile, because it goes against the grain of our nature. In this book, Allen Buchanan offers a counterargument: the moral mind is highly flexible, capable of both tribalism and deeply inclusive moralities, depending on the social environment in which the moral mind operates. We can't be morally tribalistic by nature, Buchanan explains, because quite recently there has been a remarkable shift away from tribalism and toward inclusiveness, as growing numbers of people acknowledge that all human beings have equal moral status, and that at least some nonhumans also have moral standing. These are what Buchanan terms the Two Great Expansions of moral regard. And yet, he argues, moral progress is not inevitable but depends partly on whether we have the good fortune to develop as moral agents in a society that provides the right conditions for realizing our moral potential. But morality need not depend on luck. We can take charge of our moral fate by deliberately shaping our social environment—by engaging in scientifically informed "moral institutional design." For the first time in human history, human beings can determine what sort of morality is predominant in their societies and what kinds of moral agents they are.

Yesterday's Tomorrow-Bini Adamczak 2021 "In Yesterday's Tomorrow, Adamczak responds to right-wing criticism in English of her first book, Communism for Kids, and critiques tendencies on the left to sidestep the dark history and the path that Communism ended up taking. She takes the reader through a series of 8 turning-points in the betrayal of communism, moving in reverse chronological order, from when the Soviet Russians deported anti-Fascists to Nazi Germany in 1939, and moving backwards from there: from the Terror of 1937-39 to the failure of the Left in Central Europe to stop the advent of National Socialism to Stalin's rise to power to Kronstadt. The essential question she asks here is: where did it all go wrong, and digs through one traumatic event after another, digging backward in an attempt to recover some reason for hope that can be utilized toward a future"--

Japanese Steel-William Bevington 2018-04-10 Japanese bicycles have long been at the forefront of both competitive and recreational cycling--from top-flight racing bicycles ridden by champions in international competition to the most collectible custom frames on the fixed-gear scene. In this comprehensive and stunningly illustrated book, William Bevington--one of the leading collectors of Japanese bicycles in the United States, and an authority on their design and manufacture--presents a fascinating overview of the golden age of Japanese bicycles. Coinciding with the flourishing of the Japanese steel industry, the most prolific and celebrated period of Japanese bicycle design came between the 1950s and the 1980s, when an abundance of exceptional raw materials, uniquely talented artisanal craftsmen, and an expanding international market combined to produce some of the most iconic and enduring bicycles of the twentieth century. From the most recognisable silhouettes of road bicycles from major manufacturers like Fuji, Panasonic, and Bridgestone to the rarest and most collectible frames from artisanal builders like 3-Rensho or Nagasawa, Japanese bicycle designers dominated the cycling world and created machines that are still revered today. Illustrated with specially commissioned photographs of fully restored bikes, and supplemented with artifacts and ephemera from manufacturers' manuals to photography of the legendary Keirin racing circuits, this book is a glorious reference for anyone with an interest in cycling and the phenomenon of Japanese design.

Making Art Work-W. Patrick Mccray 2020-10-20 The creative collaborations of engineers, artists, scientists, and curators over the past fifty years. Artwork as opposed to experiment? Engineer versus artist? We often see two different cultural realms separated by impervious walls. But some fifty years ago, the borders between technology and art began to be breached. In this book, W. Patrick McCray shows how in this era, artists eagerly collaborated with engineers and scientists to explore new technologies and create visually and sonically compelling multimedia works. This art emerged from corporate laboratories, artists' studios, publishing houses, art galleries, and university campuses. Many of the biggest stars of the art world--Robert Rauschenberg, Yvonne Rainer, Andy Warhol, Carolee Schneemann, and John Cage--participated, but the technologists who contributed essential expertise and aesthetic input often went unrecognized.

Tools for Thought-Howard Rheingold 2000 On technological development and computer development.

Designing and Building Your Own Frameset-Richard P. Talbot 1984

Effective Cycling-John Forester 2012 This thoroughly updated seventh edition offers cyclists the information they need for riding a bicycle under all conditions: on congested city streets or winding mountain roads, day or night, rain or shine.

The Scientific Attitude-Lee McIntyre 2019-05-07 An argument that what makes science distinctive is its emphasis on evidence and scientists' willingness to change theories on the basis of new evidence. Attacks on science have become commonplace. Claims that climate change isn't settled science, that evolution is "only a theory," and that scientists are conspiring to keep the truth about vaccines from the public are staples of some politicians' rhetorical repertoire. Defenders of science often point to its discoveries (penicillin! relativity!) without explaining exactly why scientific claims are superior. In this book, Lee McIntyre argues that what distinguishes science from its rivals is what he calls "the scientific attitude"—caring about evidence and being willing to change theories on the basis of new evidence. The history of science is littered with theories that were scientific but turned out to be wrong; the scientific attitude reveals why even a failed theory can help us to understand what is special about science. McIntyre offers examples that illustrate both scientific success (a reduction in childbed fever in the nineteenth century) and failure (the flawed "discovery" of cold fusion in the twentieth century). He describes the transformation of medicine from a practice based largely on hunches into a science based on evidence; considers scientific fraud; examines the positions of ideology-driven denialists, pseudoscientists, and "skeptics" who reject scientific findings; and argues that social science, no less than natural science, should embrace the scientific attitude. McIntyre argues that the scientific attitude—the grounding of science in evidence—offers a uniquely powerful tool in the defense of science.

Decoding Chomsky-Chris Knight 2016-01-01 A fresh and fascinating look at the philosophies, politics, and intellectual legacy of one of the twentieth century's most influential and controversial minds Occupying a pivotal position in postwar thought, Noam Chomsky is both the founder of modern linguistics and the world's most prominent political dissident. Chris Knight adopts an anthropologist's perspective on the twin output of this intellectual giant, acclaimed as much for his denunciations of US foreign policy as for his theories about language and mind. Knight explores the social and institutional context of Chomsky's thinking, showing how the tension between military funding and his role as linchpin of the political left pressured him to establish a disconnect between science on the one hand and politics on the other, deepening a split between mind and body characteristic of Western philosophy since the Enlightenment. Provocative, fearless, and engaging, this remarkable study explains the enigma of one of the greatest intellectuals of our time.

Handbook of Science and Technology Studies-Sheila Jasanoff 2001-11-01 For the most current, comprehensive resource in this rapidly evolving field, look no further than the Revised Edition of the Handbook of Science and Technology Studies. This masterful volume is the first resource in more than 15 years to define, summarize, and synthesize this complex multidisciplinary, international field. Tightly edited with contributions by an internationally recognized team of leading scholars, this volume addresses the crucial contemporary issues—both traditional and nonconventional—social studies, political studies, and humanistic studies in this changing field. Containing theoretical essays, extensive literature reviews, and detailed case studies, this remarkable volume clearly sets the standard for the field. It does nothing less than establish itself as the benchmark, one that will carry the field well into the next century.