

Jauniegvumu apskats: Tehnoloģiju & dabaszinātņu izdevumi svešvalodās



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Priekšvārds

Septembrī – zinību mēnesī klajā nāk izdevuma *Jauniegvumu apskats: Tehnoloģiju un dabaszinātņu izdevumi svešvalodās (JA)* 2023. gada 3. numurs. Tas lasītājus iepazīstina ar jaunākajām grāmatām, kas papildinājušas Latvijas Nacionālās bibliotēkas Tehnoloģiju un dabaszinātņu lasītavas krājumu. Grāmatās atspoguļoto tēmu loks ir plašs. Tā, piemēram, Pārtikas zinātņu nodaļā turpinām iepazīt dažādus dzērienus (16.-17. lpp.). Tēma apskatīta arī JA 2022. gada 4. numurā. To aicinām skatīt [šeit](#).

Savukārt Medicīnas nodaļas 6. un 7. lpp. iekļauti izdevumi, kas stāsta par postošām sērgām – epidēmijām un pandēmijām gan senā, gan ne tik senā pagātnē. Arī izdevumā *“The Silken Thread: Five Insects and Their Impacts on Human History”*, kura anotācija lasāma Dabaszinātņu nodaļas 4. lpp., tās autori entomologi R.N. Wiedenmann un J.R. Fisher pievēršas šīm sērgām, aprakstot kukaiņu lomu infekcijas slimību pārnēsē.

Šis ir tikai neliels ieskats JA iekļauto grāmatu saturā. Aicinām iepazīties arī ar citu izdevumu anotācijām, klikšķinot uz interesējošās nozares nodaļas satura rādītāja saites.

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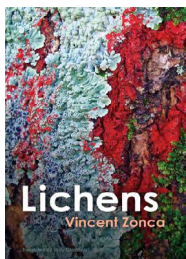
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Zonca, V. (2023). *Lichens : Toward a Minimal Resistance*. Polity Press. ISBN 9781509553457

Covering almost 8 percent of the earth's terrain, lichens are living beings which are familiar to everyone, known to no one. They are one of those organisms that seem to offer nothing to hold our gaze. But the more time we spend with lichens, the more they reveal their beauty, their mysteries and their strange power of attraction. Part-algae and part-fungus, lichens call into question our customary ways of classifying forms of life, and allow us to conceive of an ecology that is no longer based on distinctions between nature and culture, urban and rural, competition and cooperation.

The result of several years of investigation carried out on several different continents, this remarkable book offers an original, radical, and, like its subject matter, symbiotic reflection on this common but mostly invisible form of life, blending cultures and disciplines, drawing on biology, ecology, philosophy, literature, poetry, even graphic art. What if lichens were at the heart of some of the most pressing and topical questions of our day? Does the fact that they can live everywhere, even in very harsh environments, that they persist when almost all other traces of life have disappeared, mean that, despite their fragility, lichens are a force of resistance?

After reading this book you will never see lichens, or the world, in the same way again.

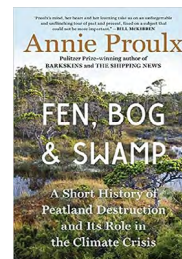
TD582/Zo510



Bell, N. (2023). *The Hidden World of Mosses*. Royal Botanic Garden Edinburgh. ISBN 9781910877456

Mosses have a spectacular diversity of beautiful and surprising forms. They are nearly always what we as humans would consider small, but they play a critical role in climate change prevention and in controlling the movement of water and nutrients through the environment. With stunning photography throughout to complement the text, *The Hidden World of Mosses* explores the tiny, intriguing realm of these plants that form their own miniature forests filled with grazers and predators and have their own ecological norms and mechanics.

TD582/Be300



Proulx, A. (2022). *Fen, Bog & Swamp : A Short History of Peatland Destruction and Its Role in the Climate Crisis*. Scribner. ISBN 9781982173357

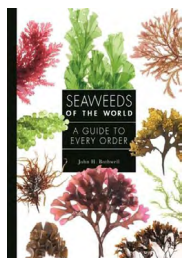
A lifelong acolyte of the natural world, Annie Proulx brings her witness and research to the subject of wetlands and the vitally important yet little understood role they play in preserving the environment – by storing the carbon emissions that accelerate climate change. Fens, bogs, swamps and marine estuaries are the earth's most desirable and dependable resources, and in four illuminating parts Proulx documents the emergence of their systemic destruction in the pursuit of profit.

Wide-ranging and idiosyncratic, Proulx's explanation of wetlands takes readers to the fens of sixteenth-century England, Canada's Hudson Bay Lowlands, Russia's Great Vasyugan Mire and America's Okefenokee National Wildlife Refuge and introduces the nineteenth-century explorers who launched the destruction of the Amazon rainforest.

Proulx was born in the 1930s, a time, as she says, when "in the ever-continuing name of Progress, Western countries busily raped their own and other countries of minerals, timber, fish and wildlife." She has written eloquently and persuasively about human rapaciousness in much of her fiction, most notably *That Old Ace in the Hole* and *Barkskins*, her magnificent novel about three centuries of global deforestation. *Fen, Bog & Swamp* is both revelatory history and an urgent

plea for wetland reclamation from a writer whose passionate devotion to observing and preserving the environment is on glorious display.

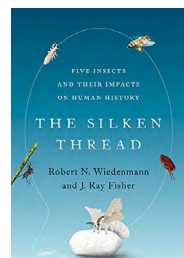
TD556/Pr873



Bothwell, J.H. (2023).
Seaweeds of the World: A Guide to Every Order.
Princeton University Press.
ISBN 9780691228549

Seaweeds are astoundingly diverse. They are found along the shallows of beaches and have been recorded living at depths of more than 800 feet; they can be microscopic or grow into giants many meters long. They're incredibly efficient at using the materials found in the ocean and are increasingly used in the human world, in applications from food to fuel. They're beautiful, too, with their undulating shapes anchored to the sea floor or drifting on the surface. Seaweeds aren't plants: they're algae, part of a huge and largely unfamiliar group of aquatic organisms. *Seaweeds of the World* makes sense of their complicated world, differentiating between the three main groups – red, green, and brown – and delving into their complex reproductive systems. The result is an unprecedented, accessible, and in-depth look at a previously hidden ocean world.

- Features more than 250 beautiful color photos as well as diagrams and distribution maps;
 - Covers every major family and genus.
- TD582/Bo846**



Wiedenmann, R.N., & Fisher, J.R. (2021).
The Silken Thread: Five Insects and Their Impacts on Human History.
Oxford University Press.
ISBN 9780197555583

Diseases vectored by insects have killed more people than all weapons of war. Fleas are common pests, but some can transmit illnesses such as the bubonic plague. In fact, three pandemics can be traced back to them. Epidemics of typhus have been caused by lice. Conversely, humans have also benefitted from insects for millennia. Silk comes from silkworms and honey comes from bees. Despite the undeniably powerful effects of insects on humans, their stories are typically left out of our history books.

In *The Silken Thread*, entomologists Robert N. Wiedenmann and J. Ray Fisher link the history of insects to the history of empires, cultural exchanges, and warfare. The book narrows its focus to just five insects: a moth, a flea, a louse, a mosquito, and a bee. The authors explore the impact of these insects throughout time and the common threads connecting them. Using biology to complement history, they showcase these small creatures in a whole new light.

On every page, the authors thoughtfully analyze the links between history and entomology. The book begins with silkworms, which have been farmed for centuries. It then moves to fleas and their involvement in the spread of the plague before introducing the role lice played in the Black Death, wars, and immigration. The following section concerns yellow fever mos-

quitos, emphasizing the effects of yellow fever in the Americas and the connection to sugar and slavery. After discussing the importance of western honey bees, the authors tie these five insects together in an exciting closing chapter.

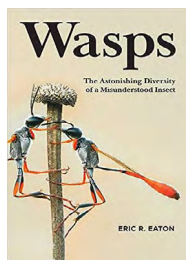
TD595.7/Wi145



Denlinger, D.L. (2022).
Insect Diapause.
Cambridge University Press.
ISBN 9781108497527

Our highly seasonal world restricts insect activity to brief portions of the year. This feature necessitates a sophisticated interpretation of seasonal changes and enactment of mechanisms for bringing development to a halt and then reinitiating it when the inimical season is past. The dormant state of diapause serves to bridge the unfavourable seasons, and its timing provides a powerful mechanism for synchronizing insect development. This book explores how seasonal signals are monitored and used by insects to enact specific molecular pathways that generate the diapause phenotype. The broad perspective offered here scales from the ecological to the molecular and thus provides a comprehensive view of this exciting and vibrant research field, offering insights on topics ranging from pest management, evolution, speciation, climate change, and disease transmission, to human health, as well as analogies with other forms of invertebrate dormancy and mammalian hibernation.

TD595.7/De568



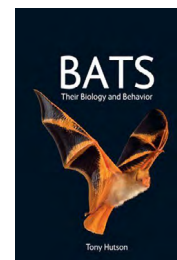
Eaton, E.R. (2021). *Wasps : The Astonishing Diversity of a Misunderstood Insect*. Princeton University Press. ISBN 9780691211428

Wasps are far more diverse than the familiar yellowjackets and hornets that harass picnickers and build nests under the eaves of our homes. These amazing, mostly solitary creatures thrive in nearly every habitat on Earth, and their influence on our lives is overwhelmingly beneficial. Wasps are agents of pest control in agriculture and gardens. They are subjects of study in medicine, engineering, and other important fields. Wasps pollinate flowers, engage in symbiotic relationships with other organisms, and create architectural masterpieces in the form of their nests. This richly illustrated book introduces you to some of the most spectacular members of the wasp realm, colorful in both appearance and lifestyle. From minute fairyflies to gargantuan tarantula hawks, wasps exploit almost every niche on the planet. So successful are they at survival that other organisms emulate their appearance and behavior. The sting is the least reason to respect wasps and, as you will see, no reason to loathe them, either. Written by a leading authority on these remarkable insects, *Wasps* reveals a world of staggering variety and endless fascination.

- Packed with more than 150 incredible color illustrations;
- Includes a wealth of eye-popping infographics;

- Provides comprehensive treatments of most wasp families;
- Describes wasp species from all corners of the world;
- Covers wasp evolution, ecology, physiology, diversity, and behavior;
- Highlights the positive relationships wasps share with humans and the environment.

TD595.7/Ea930



Hutson, T. (2022). *Bats : Their Biology and Behavior*. Comstock Publishing Associates. ISBN 9781501767777

In this illuminating introduction to the world of bats, Tony Hutson reveals the secrets of these extraordinary creatures.

Beginning with their anatomy, Hutson explores how bats' unique characteristics have enabled them to evolve to fill a wide variety of habitats and niches. He examines their different life cycles, dietary strategies, migration patterns, and unique feats of echolocation. And he also discusses their predators, parasites, the man-made threats to their ecosystem, and how the viruses harbored by bats can have an impact on humans.

Bats also features an appendix of bat families that details the number of genera and species and their distribution and diet.

TD599/Hu924



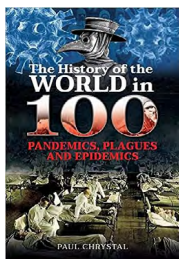
Peña-Guzmán, D.M. (2022). *When Animals Dream : The Hidden World of Animal Consciousness*. Princeton University Press. ISBN 9780691220093

Are humans the only dreamers on Earth? What goes on in the minds of animals when they sleep? *When Animals Dream* brings together behavioral and neuroscientific research on animal sleep with philosophical theories of dreaming. It shows that dreams provide an invaluable window into the cognitive and emotional lives of non-human animals, giving us access to a seemingly inaccessible realm of animal experience.

David Peña-Guzmán uncovers evidence of animal dreaming throughout the scientific literature, suggesting that many animals run "reality simulations" while asleep, with a dream-ego moving through a dynamic and coherent dream-cape. He builds a convincing case for animals as conscious beings and examines the thorny scientific, philosophical, and ethical questions it raises. Once we accept that animals dream, we incur a host of moral obligations and have no choice but to rethink our views about who animals are and the interior lives they lead.

A mesmerizing journey into the otherworldly domain of nonhuman consciousness, *When Animals Dream* carries profound implications for contemporary debates about animal cognition, animal ethics, and animal rights, challenging us to regard animals as beings who matter, and for whom things matter.

TD591.5/Pe350



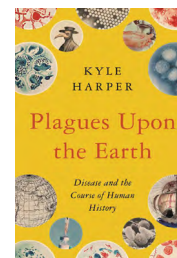
Chrystal, P. (2021). *The History of the World in 100 Pandemics, Plagues and Epidemics: From Prehistory to COVID-19*. Pen & Sword History. ISBN 9781399005425

This revelatory book charts and explains the impact and consequences of successive pandemics, plagues and epidemics on the course of world history – all through the lens of today’s ongoing global experience of COVID-19. Ranging from prehistory to the present day, it first defines what constitutes a pandemic or epidemic then looks at 20 guilty diseases: including cholera, influenza, bubonic plague, leprosy, measles, smallpox, malaria, AIDS, MERS, SARS, Zika, Ebola and, of course, COVID-19. Some less well-known, but equally significant and deadly contagions such as Legionnaires’ Disease, psittacosis, polio, the Sweat, and dancing plague, are also covered.

The book is ordered chronologically. Each chapter features an explanation and description of epidemiology, sources and vectors, morbidity, mortality, governmental response and reaction, societal response and impact as well as psychological issues where known – and the political, legal and scientific consequences it had or has for each locus at a local and international level. In short – the book explains how each of the events both made and influenced subsequent history in its own way, particularly how each shaped future medical and scientific research and vaccine development programmes. It also examines myths about infectious diseases, the role of the media and social media. Perhaps most importantly, Paul

Chrystal asks what lessons have been learnt. Will we be better prepared next time? Because, if one thing is sure, there is going to be a ‘next time’.

TD616.9/Ch924



Harper, K. (2021). *Plagues Upon the Earth: Disease and the Course of Human History*. Princeton University Press. ISBN 9780691192123

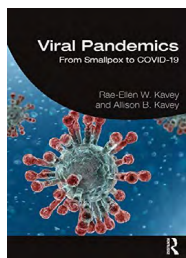
Plagues Upon the Earth is a monumental history of humans and their germs. Weaving together a grand narrative of global history with insights from cutting-edge genetics, Kyle Harper explains why humanity’s uniquely dangerous disease pool is rooted deep in our evolutionary past, and why its growth is accelerated by technological progress. He shows that the story of disease is entangled with the history of slavery, colonialism, and capitalism, and reveals the enduring effects of historical plagues in patterns of wealth, health, power, and inequality. He also tells the story of humanity’s escape from infectious disease – a triumph that makes life as we know it possible, yet destabilizes the environment and fosters new diseases.

Panoramic in scope, *Plagues Upon the Earth* traces the role of disease in the transition to farming, the spread of cities, the advance of transportation, and the stupendous increase in human population. Harper offers a new interpretation of humanity’s path to control over infectious disease – one where rising evolutionary threats constantly push back against human progress, and where the devastating effects of modernization contribute to the great divergence between societies. The book reminds us that human health is globally interdependent – and inseparable from the well-being of the

planet itself.

Putting the COVID-19 pandemic in perspective, *Plagues Upon the Earth* tells the story of how we got here as a species, and it may help us decide where we want to go.

TD616.9/Ha584



Kavey, R.-E.W., & Kavey, A.B. (2021). *Viral Pandemics : From Smallpox to COVID-19*. Routledge. ISBN 9780367439651

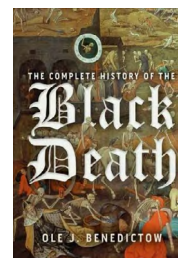
Written by a public health practitioner and a medical historian, *Viral Pandemics* explores the terrifying world of viruses as the cause of all acute pandemics since 1900, including the COVID-19 pandemic. The book illuminates the critical dual roles of viral biology and increasing global interconnectedness that have resulted in an escalating pandemic spiral.

Viral Pandemics is the first book to focus exclusively on pandemics caused by viruses and the first to report the COVID-19 pandemic. In each chapter, the historiographic narrative follows the path of the virus from its original detection through its first appearance as the cause of disease, to its emergence as an explosive pandemic. Scientific information is presented in an accessible, straightforward style in compelling narratives that introduce the extraordinary universe of diverse, opportunistic viruses whose remarkable capacities make them formidable adversaries. The book makes it clear that global viral disease challenges are a persistent reality with the potential to cause catastrophic loss of life and major social and economic damage. A summary chapter draws together lessons learned and develops a proposed multidisciplinary global response.

Viral Pandemics is the only book that provides a complete historical narrative focused

on viral pandemics. This comprehensive survey is designed for students and scholars in biology, epidemiology, public health, global history and the history of medicine, as well as general readers interested in the science of pandemics.

TD616.9/Ka933



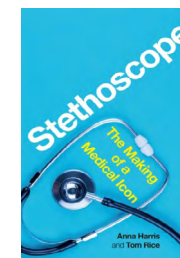
Benedictow, O.J. (2021). *The Complete History of the Black Death*. The Boydell Press. ISBN 9781783275168

The Black Death was a disaster of huge magnitude, shaking medieval Europe and beyond to its economic and social core.

Building upon his acclaimed study of 2004, Ole Benedictow here draws upon new scholarship and research to present a comprehensive, definitive account of the Black Death and its impact on European history. The medical and epidemiological characteristics of the disease, its geographical origin, its spread across Asia Minor, the Middle East, North Africa, Europe and Russia, and the mortality in the countries and regions for which there are satisfactory studies, are clearly presented and thoroughly discussed. The pattern, pace and seasonality of the spread of the disease reflect current medical work and standard studies on the epidemiology of bubonic plague.

Benedictow's findings make it clear that the true mortality rate was far higher than had been previously thought: some 60% of Europe's population. In the light of those findings, the discussion of the Black Death as a turning point in history takes on a new significance.

TD61(09)/Be402

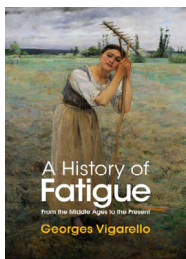


Harris, A., & Rice, T. (2022). *Stethoscope : The Making of a Medical Icon*. Reaktion Books. ISBN 9781789146332

This book explores the colourful past, present and future of an instrument that is close to our hearts. The stethoscope has become the symbol of medicine itself, but how did this come to be? What makes the stethoscope such a familiar and charismatic object?

Drawing from a range of fields including history, anthropology, sound studies and science and technology studies, *Stethoscope: The Making of a Medical Icon* illustrates the variety of roles the stethoscope has played over time. It shows that the stethoscope is not, and has never been, a single entity: it is used to a variety of ends, serves a number of purposes and is open to many interpretations. This is the key to the stethoscope's enduring presence in the medical and popular imagination.

TD616-7/Ha597



Vigarello, G. (2022). *A History of Fatigue: From the Middle Ages to the Present*. Polity Press. ISBN 9781509549252

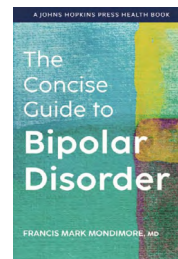
“Stress,” “burn out,” “mental overload”: the twentieth and twenty-first centuries have witnessed an unrelenting expansion of the meaning of fatigue. The tentacles of exhaustion insinuated themselves into every aspect of our lives, from the workplace to the home, from our relationships with friends and family to the most intimate aspects of our lives. All around us are the signs of a “burn-out society,” a society in which fatigue has become the norm. How did this happen?

This pioneering book explores the rich and little-known history of fatigue from the Middle Ages to the present. Vigarello shows that our understanding of fatigue, the words used to describe it, and the symptoms and explanations of it have varied greatly over time, reflecting changing social mores and broader aspects of social and political life. He argues that the increased autonomy of people in Western societies (whether genuine or assumed), the positing of a more individualized self, and the ever expanding ideal of independence and freedom have constantly made it more difficult for us to withstand anything that constrains or limits us. This painful contradiction causes weariness as well as dissatisfaction. Fatigue spreads and becomes stronger, imperceptibly permeating everything, seeping into ordinary moments and unexpected places.

Ranging from the history of war, religion

and work to the history of the body, the senses and intimacy, this history of fatigue shows how something that seems permanently centered in our bodies has, over the course of centuries, also been ingrained in our minds, in the end affecting the innermost aspects of the self.

TD612.8/Vi323



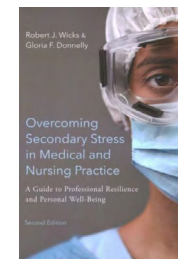
Mondimore, F.M. (2022). *The Concise Guide to Bipolar Disorder*. Johns Hopkins University Press. ISBN 9781421444031

In *The Concise Guide to Bipolar Disorder*, psychiatrist Dr. Francis Mark Mondimore summarizes everything you need to know about this complex mental health condition. In down-to-earth language, he explains:

- The science behind bipolar disorder, what it is, how it affects you, and the best options for you to take care of your physical and mental health;
- What treatments are available and how you can decide which medications and combinations are best for you;
- How to get help from family members and professionals, including therapy; and
- What to do in the event of a mental health emergency.

This book is an excellent resource for those who are newly diagnosed or those seeking ready answers to the most common questions about bipolar disorder.

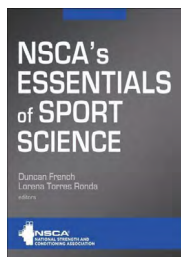
TD616.89/Mo325



Wicks, R.J., & Donnelly, G.F. (2021). *Overcoming Secondary Stress in Medical and Nursing Practice: A Guide to Professional Resilience and Personal Well-Being* (2nd ed.). Oxford University Press. ISBN 9780197547243

There is no better time to revisit the problem of secondary stress among caregivers than on the heels of the COVID-19 pandemic. In this new edition of *Overcoming Secondary Stress in Medical and Nursing Practice*, Robert J. Wicks and Gloria F. Donnelly draw on content from the first edition, information from classic literature, and research findings about the phenomenon of secondary stress experienced by nurses, physicians, and physician assistants. They offer enriching insight that will lead to an enhanced resilience of mind, body, and spirit. Highlighting the importance of interprofessional communication and detailing ways to ameliorate stress, this book is an indispensable resource for medical and nursing professionals, students, and the counselors and therapists who work with them.

TD614/Wi075



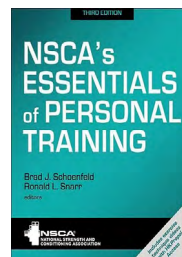
French, D.N., & Torres Ronda, L. (Eds.). (2022). *NSCA's Essentials of Sport Science*. Human Kinetics. ISBN 9781492593355

The potential for applying science to sport training and sport performance has created a demand for sport scientists who can collect and convert data into valuable information that directly influences training and improves performance outcomes. In response, the world-renowned National Strength and Conditioning Association developed the must-have reference for anyone in the field.

NSCA's Essentials of Sport Science features contributions from 52 globally recognized experts and thought leaders from the field of sport science. It is the only resource that addresses every aspect of the sport scientist's role – understanding training theory, performing needs analyses, conducting athlete monitoring and assessment, managing data and analytics, and educating and disseminating information. The content specifically addresses the knowledge, skills, and abilities that are tested on the NSCA's Certified Performance and Sport Scientist (CPSS) certification exam.

The book provides a holistic overview of the technical expertise, skills, and knowledge required to operate effectively as a modern-day sport scientist. Moreover, it will aid all sport scientists in acquiring and using the best available evidence – at the right time, in the right environment, and for the right individual – to maximize their performance.

TD796/Na762



Schoenfeld, B.J., & Snarr, R.L. (Eds.). (2022). *NSCA's Essentials of Personal Training* (3rd ed.). Human Kinetics. ISBN 9781492596721

Developed by the National Strength and Conditioning Association (NSCA), *NSCA's Essentials of Personal Training, Third Edition*, is the definitive reference for personal training professionals and students. Updated with the latest scientific research and with contributions from leaders in the field, readers will gain the knowledge, skills, and abilities needed by personal training professionals. The text is the authoritative resource for those preparing for the NSCA's Certified Personal Trainer (NSCA-CPT) exam.

The text provides guidelines for designing safe and effective exercise programs for clients of all ages and fitness levels as well as specific exercise program modifications for unique client needs. Fitness testing protocols and norms for each component of fitness, updated to reflect current research and modern applications, are presented with instructions that are detailed yet easy to follow.

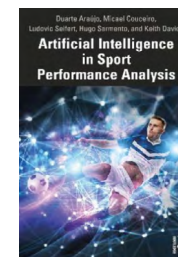
Over 200 color photos and instructions clearly describe proper technique for exercises and drills, along with 27 online videos demonstrating exercise technique in action. Also included are end-of-chapter study questions written in the same style and format as those found on the NSCA-CPT exam to facilitate learning and fully prepare candidates for exam day.

Unmatched in scope, this essential text

continues to be a definitive reference for current and future personal trainers, exercise instructors, and other fitness professionals.

Ancillaries for adopting instructors are available online.

TD796.015/Sc572



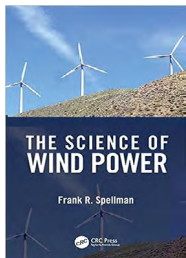
Araújo, D., Couceiro, M., Seifert, L., Sarmiento, H., & Davids, K. (2021). *Artificial Intelligence in Sport Performance Analysis*. Routledge. ISBN 9780367254377

To understand the dynamic patterns of behaviours and interactions between athletes that characterize successful performance in different sports is an important challenge for all sport practitioners. This book guides the reader in understanding how an ecological dynamics framework for use of artificial intelligence (AI) can be implemented to interpret sport performance and the design of practice contexts.

By examining how AI methodologies are utilized in team games, such as football, as well as in individual sports, such as golf and climbing, this book provides a better understanding of the kinematic and physiological indicators that might better capture athletic performance by looking at the current state-of-the-art AI approaches.

Artificial Intelligence in Sport Performance Analysis provides an all-encompassing perspective in an innovative approach that signals practical applications for both academics and practitioners in the fields of coaching, sports analysis, and sport science, as well as related subjects such as engineering, computer and data science, and statistics.

TD796.015/Ar090



Spellman, F.R. (2022). *The Science of Wind Power*. CRC Press. ISBN 9781032265797

Concern for the environment and for the impacts of environmental pollution has brought about the need to shift from the reliance on hydrocarbons to energy sources that are nearly pollution neutral and renewable. *The Science of Wind Power* is designed to provide a fundamental understanding for wind technicians and students alike, essentially examining how to harness the wind to produce energy for transmission and use, while keeping environmental impacts in mind. Wind power is one of the fastest-growing energy sources, as it offers many advantages such as being sustainable and a renewable energy source that has a much smaller impact on the global environment compared to fossil fuels. It is important to point out, however, that like wind itself, wind power has a good and bad side, advantages and disadvantages (challenges) – and these different aspects are discussed in detail herein.

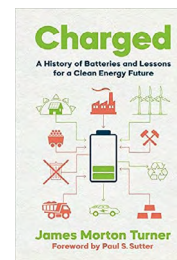
Features:

- Examines the mechanical, electrical, hydraulic, and electronic aspects of wind turbines;
- Provides the fundamentals of wind turbine aerodynamics, modeling, and testing;
- Includes design standards for wind turbines and electrical distribution systems;
- Delineates the differences between off-shore and land-based wind power;
- Discusses special purpose applications,

such as energy distribution and storage.

A must-have volume that includes the latest data, diagrams, and useful illustrations, *The Science of Wind Power* offers a complete examination of one of the most promising sources of renewable energy and serves as a great introduction to the cross-disciplinary field for students and practicing engineers. The concepts and guidelines presented will equip readers with the scientific rationale required to make decisions that could directly affect the environment around them.

TD620.92/Sp313



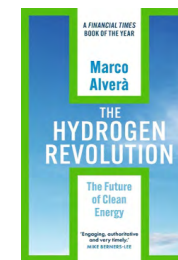
Turner, J.M. (2022). *Charged: A History of Batteries and Lessons for a Clean Energy Future*. University of Washington Press. ISBN 9780295750248

To achieve fossil fuel independence, few technologies are more important than batteries. Used for powering zero-emission vehicles, storing electricity from solar panels and wind turbines, and revitalizing the electric grid, batteries are essential to scaling up the renewable energy resources that help address global warming. But given the unique environmental impact of batteries – including mining, disposal, and more – do we risk trading one set of problems for another?

In *Charged*, James Morton Turner unpacks the history of batteries to explore why solving “the battery problem” is critical. As climate activists focus on what a clean energy economy will create – sustainability, resiliency, and climate justice – the history of batteries offers a sharp reminder of what building that future will consume: lithium, graphite, nickel, and other specialized materials. With new insight on the consequences for people and communities on the front lines, Turner draws on the past for crucial lessons that will help us build a just and clean energy future, from the ground up.

TD621.3/Tu717

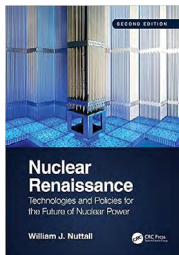
EBSCOhost Ebook Academic Collection



Alverà, M. (2022). *The Hydrogen Revolution: A Blueprint for the Future of Clean Energy*. Hodder Studio. ISBN 9781529360318

If we're going to heal the climate, we need to start thinking big. Hydrogen is the key for getting us there, the missing link in the global energy web that can be used to bring clean energy to every corner of the globe. As energy expert Marco Alverà explains, whether you are a policy maker, a business person, an activist or simply curious, the message is this: there is hope, for us and our planet.

TD620.92/Al950



Nuttall, W.J. (2022). *Nuclear Renaissance: Technologies and Policies for the Future of Nuclear Power* (2nd ed.). CRC Press. ISBN 9780367478070

Nuclear power is low carbon and reliable, but in recent years, it has struggled to play a strong role in global plans for electricity generation in the twenty-first century. Many of those involved with nuclear power and environmental agencies see controlled expansion of nuclear plants as the most environmentally friendly way of meeting growing energy demands. In the United Kingdom, policymakers must recognise concerns around severe accidents and radioactive wastes, and balance these against the risks arising from other energy technologies. In addition, energy policymakers must ensure that energy supplies remain affordable for all in society. How might new nuclear power stations help meet emerging policy needs?

This second edition of *Nuclear Renaissance: Technologies and Policies for the Future of Nuclear Power* continues to examine the future of nuclear power in the contexts of economics, environmental sustainability, and security of electricity supplies. Fully updated with the latest technologies and concerns, this comprehensive guide illustrates the technical challenges and opportunities facing nuclear power.

This semi-technical overview of modern technologies meets the growing interest of scientists, environmentalists, and governments in the potential expansion of nuclear power.

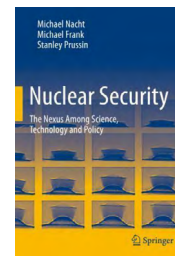
Various countries are starting to announce plans for new nuclear plants, either to replace those being decommissioned, to provide additional power, or to contribute to the decarbonisation of especially challenging industrial activities. In the 2020s, many commentators, once again, point to a renaissance just beginning.

Nuclear Renaissance: Technologies and Policies for the Future of Nuclear Power is essential reading for physicists, engineers, policymakers, researchers, energy analysts, and graduate students in energy sciences, engineering, and public policy.

Key features:

- Fully updated throughout, with new content on topics including the latest developments in fission and fusion energy, the global financial crisis of 2008/2009, and the Fukushima-Daiichi nuclear accident;
- Accessible to readers without a formal education in the area;
- Authored by an authority in the field.

TD621.039/Nu801

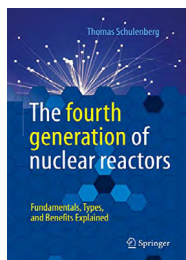


Nacht, M., Frank, M., & Prussin, S. (2021). *Nuclear Security: The Nexus Among Science, Technology and Policy*. Springer. ISBN 9783030750879

This textbook is the first comprehensive and systematic account of the science, technology and policy issues associated with nuclear energy and nuclear weapons. Throughout their account of the evolution of nuclear policy, from its origin to the early Trump presidency, the authors interweave clear technical expositions of the science and technology that underpin and constrain it. The book begins by tracing the early work in atomic physics, the discovery of fission, and the developments that led to the Manhattan Project and the delivery of atomic bombs against Japan that ended World War II. It follows the initial failed attempts at nuclear disarmament, the onset of the Cold War nuclear arms competition, and the development of light water reactors to harness nuclear energy for electric power generation. The authors thoroughly unpack the problem of nuclear proliferation, examining the strategy and incentives for states that have and have not pursued nuclear weapons, and providing an overview of the nuclear arsenals of the current nuclear weapon states. They trace the technical, political and strategic evolution of deterrence, arms control and disarmament policies from the first attempts for an Outer Space Treaty in 1957 through the new START treaty of 2009. At critical junctures in the narrative, the authors explain the relevant nuclear science and

technology including nuclear fission and criticality; nuclear materials and enrichment; nuclear detonation and nuclear weapons effects; nuclear weapons stockpile constraints, stewardship and surveillance; nuclear fusion and thermonuclear weapons; technologies for monitoring, verification and proliferation; and nuclear forensics. They conclude with an assessment of contemporary issues ranging from the Joint Comprehensive Plan of Action reached to halt Iran's nuclear weapons development program, to the threat of nuclear terrorism, the perceived nuclear weapons policies of Russia and China, and the US efforts to provide disincentives for its allies to acquire their own nuclear weapons by maintaining credible security guarantees.

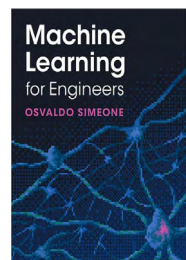
TD621.039/Na150



Schulenberg, T. (2022). *The Fourth Generation of Nuclear Reactors : Fundamentals, Types, and Benefits Explained.* Springer. ISBN 9783662649183

This book is intended for readers who want to learn more about fourth generation nuclear reactors without having to delve deeply into nuclear technology. These nuclear reactors are a number of visionary concepts for which special criteria have been set by the Generation IV International Forum with regard to safety, sustainability and economic efficiency. The book therefore describes, among other things, innovative water- and liquid-metal-cooled reactors, high-temperature and molten-salt reactors, and discusses their significance for the economy and society. The author imparts relevant basic knowledge of nuclear technology and then uses some illustrative examples to show what future opportunities this fourth generation of nuclear reactors will offer, but also what challenges will be associated with it.

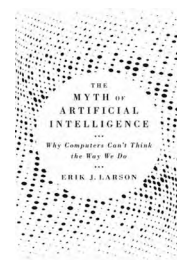
TD621.039/Sc762



Simeone, O. (2023). *Machine Learning for Engineers.* Cambridge University Press. ISBN 9781316512821

This self-contained introduction to machine learning, designed from the start with engineers in mind, will equip students with everything they need to start applying machine learning principles and algorithms to real-world engineering problems. With a consistent emphasis on the connections between estimation, detection, information theory, and optimization, it includes: an accessible overview of the relationships between machine learning and signal processing, providing a solid foundation for further study; clear explanations of the differences between state-of-the-art techniques and more classical methods, equipping students with all the understanding they need to make informed technique choices; demonstration of the links between information-theoretical concepts and their practical engineering relevance; reproducible examples using Matlab, enabling hands-on student experimentation. Assuming only a basic understanding of probability and linear algebra, and accompanied by lecture slides and solutions for instructors, this is the ideal introduction to machine learning for engineering students of all disciplines.

TD004.8/Si536



Larson, E.J. (2021). *The Myth of Artificial Intelligence : Why Computers Can't Think the Way We Do.* The Belknap Press of Harvard University Press. ISBN 9780674983519

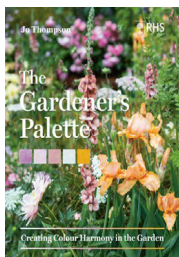
Futurists insist that AI will soon eclipse the capacities of the most gifted human mind. What hope do we have against superintelligent machines? But Erik Larson mounts a clear and damning case that we aren't really on the path to developing intelligent machines. In fact, we don't even know where that path might be.

A tech entrepreneur and pioneering research scientist working at the forefront of natural language processing, Larson takes us on a tour of the landscape of AI to show how far we are from superintelligence, and what it would take to get there. Ever since Alan Turing, AI enthusiasts have equated artificial intelligence with human intelligence. This is a profound mistake. AI works on inductive reasoning, crunching data sets to predict outcomes. But humans don't correlate data sets: we make conjectures informed by context and experience. Human intelligence is a web of best guesses, given what we know about the world. We haven't a clue how to program this kind of intuitive reasoning, known as abduction. Yet it is the heart of common sense. That's why Alexa can't understand what you are asking, and why AI can only take us so far.

Larson argues that AI hype is both bad science and bad for science. A culture of invention thrives on exploring unknowns, not overselling existing methods. Inductive AI will

continue to improve at narrow tasks, but if we want to make real progress, we will need to start by more fully appreciating the only true intelligence we know – our own.

TD004.8/La684



Thompson, J. (2022).
*The Gardener's Palette :
Creating Colour Harmony
in the Garden.* Timber
Press.
ISBN 9781604699593

Colour can set a mood at a glance, from sunny and cheerful to peaceful or dramatic. We choose colours every day to reflect how we're feeling or as personal expression, with our clothing and in our homes. So why can it seem so difficult to choose and use colourful plants well? Since our gardens are where we go to relax, they should be filled with hues that make us truly happy.

The Gardener's Palette, published in partnership with the world's most respected gardening organization, shares an entirely new way for home gardeners to confidently incorporate color at home. Award-winning garden designer Jo Thompson curates 100 evocative and fresh palettes, pairs them with beautiful images of professionally designed gardens, and breaks them down with charts showing the exact plants used. She also provides full growing specifications for every plant to allow home gardeners to successfully re-create these stunning gardens.

TD635.9/Th606



Jeffries, S. (2023).
*Designing, Planting and
Using a Therapeutic
Garden.* The Crowood
Press.
ISBN 9780719841514

The benefits of therapeutic gardens, where users can interact with plants for the purpose of moving towards a specific outcome or meeting a particular need, are increasingly being recognised in healthcare and beyond. This book provides a practical guide for garden designers, horticulture professionals, landscape architects and therapeutic horticulturalists to create a successful and sustainable therapeutic garden space, whether from scratch or working with an existing site. An appreciation of how the garden will be used is an essential part of its design, so this book also outlines therapeutic activities and ideas, making it a valuable resource for healthcare professionals, counsellors, teachers, activity co-ordinators, social prescribers and occupational therapists who are looking to use horticulture in their therapeutic practice.

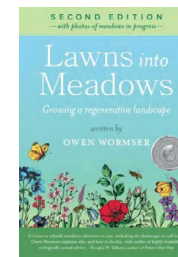
Coverage includes:

- Methods to identify the needs of the potential garden users and client requirements;
- Techniques to survey the physical space available for the garden;
- Options available for making the garden structure and features accessible and relevant to garden users;
- A directory of forty therapeutic activities, grouped by season, to inform design, aid plant choice and provide plenty of ideas for how the

garden may be used;

- Guidance and ideas for incorporating wildlife sessions, edible gardening and sensory stimulation into the garden;
- How to progress concept planning, the final design and planting plans, in discussion with clients and users;
- A directory of 100 key therapeutic plants, including their garden value and potential therapeutic uses;
- Real-life case studies covering a variety of types of working therapeutic gardens across the UK.

TD635.018/Je237



Wormser, O. (2022).
*Lawns into Meadows :
Growing a Regenerative
Landscape (2nd ed.).*
Stone Pier Press.
ISBN 9781734901184

In a world where lawns wreak havoc on our natural ecosystems, landscape designer Owen Wormser offers a compelling alternative. Meadows create wildlife and pollinator habitats. They're low-maintenance and low-cost. They have a built-in resilience that helps them weather climate extremes, and they can park loads of carbon. They're also really beautiful, all year long.

Wormser describes how to plant an organic meadow that's right for your site, whether it's a yard, community garden, or tired city lot. He shares advice on preparing your plot, coming up with the right design, and planting grasses and flowers – all without using synthetic chemicals. Wormser also profiles 21 starter meadow plants with guidance on how to grow each one. The book includes helpful illustrations and photos that Wormser has taken of meadows in different stages of development.

To illuminate the many joys of meadow-building, he draws on his own stories, including how growing up off the grid in northern Maine, with no electricity or plumbing, prepared him for his work.

Lawns into Meadows is part of Stone Pier Press's Citizen Gardening series, which highlights how to grow food and garden in ways that are good for the planet.

TD635.9/Wo746



Baras, T. (2021). *Home Hydroponics : Small-Space DIY Growing Systems for the Kitchen, Dining Room, Living Room, Bedroom, and Bath*. Cool Springs Press. ISBN 9780760370384

Hydroponic growing is about to get a facelift. Unlike other hydroponic books on the market, which offer strictly utilitarian growing system plans, the DIY hydroponic designs found here are as attractive as they are useful. They fit perfectly into your living space, regardless of whether home is a flat in the city, a corner lot in suburbia, or a sizeable homestead.

Organized by where they'll operate in your home (kitchen, bath, living room, and more!), these small-space DIY hydroponic setups will have you harvesting your own fresh lettuce, stir-fry greens, herbs, and even tomatoes, mushrooms, and edible flowers.

Hydroponic-growing pro Tyler Baras (aka Farmer Tyler) shows you how easy it is to build your own soilless growing systems. Food grown hydroponically travels only a few feet from "garden" to plate.

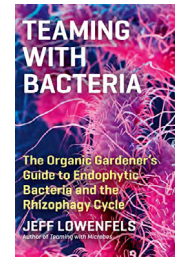
Inside you'll find:

- Fully illustrated, easy-to-follow plans for building fourteen different home-based hydroponic systems to grow food indoors;
- The nuts and bolts of hydroponic growing, including how to: select and mix the nutrient solution, set up and run grow lights, and troubleshoot;
- Techniques for starting seeds and cuttings of the best hydroponic crops;

- Charts of crop options with spacing, lighting, humidity, and temperature requirements.

Say goodbye to the need for a separate grow room or tucking your plants into a corner of the basement. Turn a coffee table, kitchen counter, bathroom wall, bedside table, or windowsill into a wonder of hydroponic production with Tyler's project plans and growing instructions.

TD631.5/Ba540



Lowenfels, J. (2022). *Teaming with Bacteria : The Organic Gardener's Guide to Endophytic Bacteria and the Rhizophagy Cycle*. Timber Press. ISBN 9781643261393

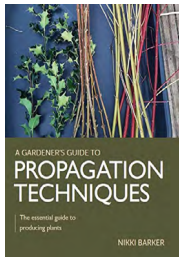
Thanks to research conducted over the last few decades, we know that most plants get a significant portion of their nutrients by attracting endophytic bacteria – bacteria that live inside a plant's cells. Through a complex process, plant cells harvest the nitrogen and other nutrients in a bacterium's cell wall and expel the bacterium's protoplasts back into the soil where they rebuild their cell walls, start feeding again, and repeat the cycle.

Teaming with Bacteria not only explains the rhizophagy cycle; it shows you how to harness this amazing process to increase productivity and plant health. In addition, endophytic bacteria increase a plant's tolerances to abiotic and biotic stresses and controlling pathogens. This is exactly what we need if we are to deal effectively with climate change, soil loss, and feeding a rapidly burgeoning population. Gardeners, farmers, and other growers must adjust best practices – and develop new ones – to ensure that the rhizophagy cycle can operate at its most efficient pace and that the right endophytic bacteria can do what they are supposed to do.

Just as *Teaming with Microbes* introduced gardeners and growers to the soil food web, *Teaming with Bacteria* adds to that science by sharing the latest research on endophytic bacteria (bacteria that live inside plants) and rhiz-

ophagy (plants "eating" bacteria) – discoveries that have profound implications for the practices of home gardeners and small-scale growers.

TD631.147/Lo914



Barker, N. (2022).
A Gardener's Guide to Propagation Techniques : The Essential Guide to Producing Plants. The Crowood Press.
ISBN 9780719840791

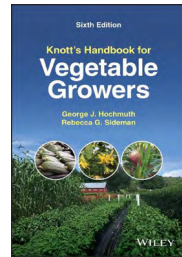
Plant propagation is an economical, rewarding and sustainable way to increase your plant stock and develop your horticultural skills. *A Gardener's Guide to Propagation Techniques* is a comprehensive, practical guide to the various methods of propagation suitable for a wide range of trees, shrubs, herbaceous perennials, bulbs and tender plants.

Chapters cover seeds, cuttings, layering, division, grafting, bulbs and even micropropagation, as well as providing an extensive list of plants that are suitable for each method, rating them from easy to difficult. In addition, the book includes:

- Step-by-step photographic guides to the different propagation techniques;
- Advice on selecting the right plant material, at the right time;
- Help with deciding on the best method for different plants;
- Guidance on choosing the appropriate propagation environment and aftercare of the material;
- An overview of pest and disease challenges.

A Gardener's Guide to Propagation Techniques will give the beginner an ideal starting point and enable more experienced propagators to finetune their methods and progress.

TD631.52/Ba655



Hochmuth, G.J., & Sideman, R.G. (2023).
Knott's Handbook for Vegetable Growers (6th ed.). Wiley.
ISBN 9781119811077

For more than 65 years, *Knott's Handbook for Vegetable Growers* has provided generations of commercial growers with the most timely, accessible, and useful information available on the subject, containing key guidance on transplant production, planting rates and spacing, irrigation, fertilization, methods for controlling diseases, and insect pest identification, plus important information on topics such as composting, post-harvest storage and processing, genetically-engineered crops, organic growing, federal regulations and best management practices, environmentally friendly pest management, and food safety.

To allow for convenient and efficient access to the enormous amount of data contained within, most of the information is presented in the form of tables and charts. The work goes above and beyond to provide everything a reader needs to know on the subject, even including a multilanguage vegetable dictionary.

Now in its 6th edition, the work has been significantly expanded and modernized to cover key modern advancements in the industry, such as:

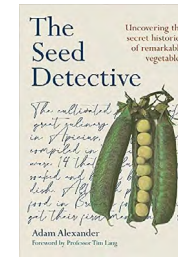
- Computer-based crop monitoring technologies, robotic disease control and harvesting systems, and new protected-ag production systems (including vertical systems and indoor

production);

- New production systems pertaining to protected organic agriculture, soil moisture sensing, environmental monitoring, soil health, and soil conservation;
- New technologies, including satellite-based decision-making, robotics, and UAVs for increasing production efficiency;
- The various advances that have been made in food safety regulations, plus coverage of new invasive pests.

Part Farmer's Almanac, part encyclopedia, and part dictionary, *Knott's Handbook for Vegetable Growers* serves as an invaluable asset for growers, students, and other industry professionals seeking an all-in-one reference for all of the questions they have on both holistic and specific facets of the commercial vegetable industry.

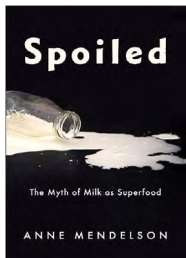
TD635/Ho045



Alexander, A. (2022).
The Seed Detective : Uncovering the Secret Histories of Remarkable Vegetables. Chelsea Green Publishing.
ISBN 9781915294081

Have you ever wondered how everyday staples such as peas, kale, asparagus, beans, squash and corn ended up on our plates? In *The Seed Detective*, seed guardian and award-winning film and television producer Adam Alexander tells of his far-flung seed-hunting adventures, revealing the surprising histories behind many of our everyday vegetables. How the common garden pea was domesticated from three wild species over 8,500 years ago; that the first carrots originated in Afghanistan (and were actually purple or red in colour); how Egyptian priests considered it a crime to look at a fava bean and that the Romans were fanatical about asparagus. Through tales of globalisation, political intrigue, colonization and serendipity, Adam shows us the vital role vegetables have played in our food story – and how they are the undeniable key to our future.

TD635/AI351



Mendelson, A. (2023). *Spoiled: The Myth of Milk as a Superfood*. Columbia University Press. ISBN 9780231188180

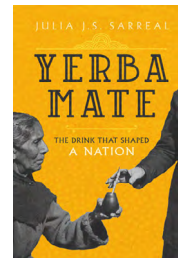
Why is cows' milk, which few nonwhite people can digest, promoted as a science-backed dietary necessity in countries where the majority of the population is lactose-intolerant? Why are gigantic new dairy farms permitted to deplete the sparse water resources of desert ecosystems? Why do thousands of U.S. dairy farmers every year give up after struggling to recoup production costs against plummeting wholesale prices?

Exploring these questions and many more, *Spoiled* is an unflinching and meticulous critique of the glorification of fluid milk and its alleged universal benefits. Anne Mendelson's groundbreaking book chronicles the story of milk from the Stone Age peoples who first domesticated cows, goats, and sheep to today's troubled dairy industry. *Spoiled* shows that drinking fresh milk was rare until Western scientific experts who were unaware of genetic differences in the ability to digest lactose deemed it superior to traditional fermented dairy products. Their flawed beliefs fueled the growth of a massive and environmentally devastating industry that turned milk into a cheap, ubiquitous commodity.

Mendelson's wide-ranging account also examines the consequences of homogenization and refrigeration technologies, the toll that modern farming takes on dairy cows, and changing perceptions of raw milk since the advent

of pasteurization. Unraveling the myths and misconceptions that prop up the dairy industry, *Spoiled* calls for more sustainable, healthful futures in our relationship with milk and the animals that provide it.

TD637.1/Me492

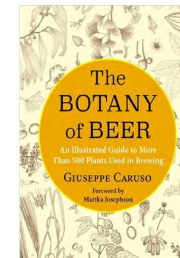


Sarreal, J.J.S. (2022). *Yerba Mate: The Drink That Shaped a Nation*. University of California Press. ISBN 9780520379282

Like coffee or tea, yerba mate is one of the world's most beloved caffeinated beverages. Once dubbed a "devil's drink" by Spanish missionaries in South America only to be later hailed by capitalists and politicians as "green gold," it has a long and storied history. And no country consumes and celebrates yerba mate quite like Argentina.

Yerba Mate is the first book to explore the extraordinary history of this iconic beverage in Argentina from the precolonial period to the present. From yerba mate's Indigenous origins to its ubiquity during the colonial era, from its association with rural people and the poor in the late nineteenth century to its resurgence in the last years of the twentieth century, Julia Sarreal meticulously documents yerba mate's consumption, production, and cultural importance over time. *Yerba Mate* is the definitive history of this popular beverage and social practice, and it tells a fascinating story about race, culture, and how a drink helped forge the national identity of one of the world's most dynamic countries.

TD663.9/Sa753

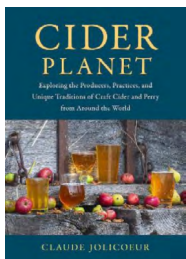


Caruso, G. (2022). *The Botany of Beer: An Illustrated Guide to More Than 500 Plants Used in Brewing*. Columbia University Press. ISBN 9780231201582

A comprehensive and beautifully illustrated compendium of the characteristics and properties of the plants used in making beer around the world.

Giuseppe Caruso presents scientifically rigorous descriptions, accompanied by his own hand-drawn ink images, of more than 500 species. This elegant book will appeal to a wide audience, from beer aficionados to botany enthusiasts, providing valuable information for homebrewers and professional beer makers alike. It reveals how botanical knowledge can open new possibilities for today's and tomorrow's brewers.

TD663.4/Ca724



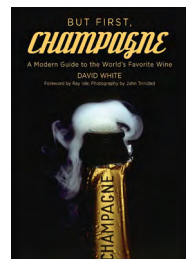
Jolicoeur, C. (2022). *Cider Planet: Exploring the Producers, Practices, and Unique Traditions of Craft Cider and Perry from Around the World*. Chelsea Green Publishing. ISBN 9781645021414

In *Cider Planet*, Claude Jolicoeur – a longtime, passionate cider maker and author of the international bestseller *New Cider Maker's Handbook* – takes readers with him to the world's greatest cider regions, providing an expertly guided tour laced with his deep understanding and appreciation for how this "Prince of Beverages" is made.

Inside *Cider Planet* you'll find:

- Descriptions of global orchard practices;
- Specific apple varieties used in different countries and regions;
- Detailed histories of the world's oldest ciderlands;
- Profiles of different cider styles and rituals;
- Tips and tricks from some of the most knowledgeable cider producers.

TD663/Jo410



White, D. (2023). *But First, Champagne: A Modern Guide to the World's Favorite Wine*. Skyhorse Publishing. ISBN 9781510772380

Today, Champagne is in the midst of a renaissance. And thanks to a few key wine importers and the farm-to-table movement, consumers everywhere are finally paying attention. In *But First, Champagne*, David White details Champagne's history along with that of its wines, explains how and why the market is changing, and profiles the region's leading producers.

These profiles will bring a new perspective to the Champagne that is home to dozens of engaging, inspiring, authentic winegrowers who today produce fantastic and affordable products. This book is essential reading for wine enthusiasts, adventurous drinkers, and foodies. With a comprehensive yet accessible overview of the region, its history, and its leading producers, *But First, Champagne* will demystify Champagne for all.

TD663.2/Wh530



Bunting, E., & Facer, J. (2023). *The Edible Flower: A Modern Guide to Growing, Cooking & Eating Edible Flowers*. Laurence King Publishing. ISBN 9780857829498

On a seven-acre small holding in rural Northern Ireland, organic gardener Jo Facer and head chef Erin Bunting run fork-to-fork supper club, organic small-holding and fledgling cooking and growing school, The Edible Flower. In their first cookbook, learn to grow and cook edible flowers with Jo and Erin's delicious recipes inspired by the seasonal produce they grow in their kitchen garden and the wild food they forage from their local shores and hedgerows. Feast, celebrate and bring people together with over 50 recipes for small plates, mains, desserts, baking, snacks and drinks, at once fresh and flavourful and absolutely stunning to serve.

TD641.564/Bu380



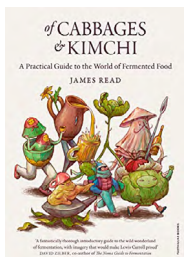
Birditt, A.D. (2022). *A Portrait of British Cheese: A Celebration of Artistry, Regionality and Recipes*. Quadrille. ISBN 9781787137981

A Portrait of British Cheese celebrates the excellence of artisan and farmhouse cheese in the British Isles, expressing it as a product of the land, its animals, and its people, offering a snapshot of rural life, artisan traditions and delicious dishes.

The UK farmhouse cheese industry has faced its biggest challenges in recent years, with the Covid-19 pandemic forcing many small cheesemakers out of business. Food writers and journalists including Jamie Oliver led the call to save British cheeses, and the public's discovery of and support for speciality artisan cheeses helped many producers to weather the storm.

Photographer and writer Angus D. Birditt has been visiting and documenting dairies all over the British Isles, looking at the food, people and landscapes dedicated to artisan and farmhouse cheeses. From Lincolnshire Poacher to Stichelton (the original Stilton), Britain's own Brie in the form of Baron Bigod from Suffolk, to Brefu Bach sheep's milk cheese from Snowdonia and Appleby's Cheshire cheese from the heart of rural Shropshire, this is a unique journey through photos, essays and recipes, revealing the joys and challenges of a life in cheesemaking.

TD637.3/Bi720



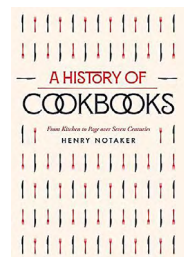
Read, J. (2023).
Of Cabbages and Kimchi : A Practical Guide to the World of Fermented Food.
Particular Books.
ISBN 9780241455005

James Read is on a mission to smuggle bacteria into our kitchens. In *Of Cabbages & Kimchi*, he takes the ten greatest 'living' ferments – fermented foods that are neither cooked nor pasteurized – and places them under the microscope, before cooking with them in all their delicious versatility.

From the fiery funk of kimchi to the velvet tang of kefir, James describes the microbial process, then shares his recipes for recreating these wonders in your own kitchen. Alongside his recipes, James investigates the extraordinary cultural and historic backgrounds of fermented foods, exploring how the microbes that bring them to life have developed alongside our culinary evolution.

Featuring over fifty recipes – including Mushroom and Sauerkraut Pierogi, Chilled Radish Noodle Soup and Green Chilli Fermented Salsa – and packed to the brim with Marija Tiurina's gastro-surrealist watercolour illustrations, *Of Cabbages and Kimchi* will help you create, understand and appreciate fermentation's bubbling magic.

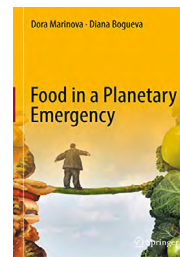
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Notaker, H. (2022).
A History of Cookbooks : From Kitchen to Page over Seven Centuries.
University of California Press.
ISBN 9780520391499

A History of Cookbooks provides a sweeping literary and historical overview of the cookbook genre, exploring its development as a part of food culture beginning in the Late Middle Ages. Studying cookbooks from various Western cultures and languages, Henry Notaker traces the transformation of recipes from brief notes with ingredients into detailed recipes with a specific structure, grammar, and vocabulary. In addition, he reveals that cookbooks go far beyond offering recipes: they tell us a great deal about nutrition, morals, manners, history, and menus while often providing entertaining reflections and commentaries. This innovative book demonstrates that cookbooks represent an interesting and important branch of nonfiction literature.

TD641(09)/No601



Marinova, D., & Bogueva, D. (2022).
Food in a Planetary Emergency.
Springer.
ISBN 9789811677069

This book *Food in a Planetary Emergency* is a timely overview of the current food systems and the required transformations to respond to the challenges of climate change, population pressures, biodiversity loss and use of natural resources, such as soils, water and phosphorus. This book takes a planetary health perspective which explores the links between natural systems and human wellbeing implying that there is need for united actions to achieve important environmental and population health co-benefits.

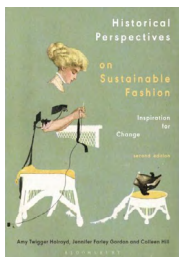
This book outlines that the foundation of planetary health is sustainability. It addresses environment and climate change emergency as a global agenda, however, emphasises the urgency of the sustainability perspective which integrates a wide spectrum of issues that require integrated solutions to offer better prospects for humanity. This book drives this argument further through the global Sustainable Development Goals (SDGs) where food is not just SDG2 but transcends all 17 goals.

This book tackles the problems of food production and consumption at a global, industry and individual level linking it to topics related to the natural environment, climate change, waste, marketing, new ways of producing food and providing alternative proteins, mitigating non-communicable diseases, flexitarianism and

the role of Generation Z in the emerging dietary choices.

This book benefits readers with understanding the importance and intricacy of their dietary choices at a point in time when our planet is facing an emergency triggered by long-term dependence on fossil fuels and artificial fertilisers but also by the ways we have provided food. However, this book also delivers the message that safeguarding and sustaining planetary health is possible.

TD664/Ma614



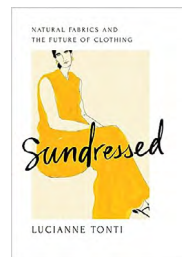
Holroyd, A.T., Farley Gordon, J., & Hill, C. (2023). *Historical Perspectives on Sustainable Fashion : Inspiration for Change* (2nd ed.). Bloomsbury Visual Arts. ISBN 9781350160439

For centuries, the fashion industry has struggled to reconcile style with sustainability. In *Historical Perspectives on Sustainable Fashion*, you will be transported back in time to discover the historical dimensions of today's sustainable fashion movement. An array of success stories and cautionary tales provide both inspiration and warnings for the eco-conscious designer, encouraging an innovative approach that builds on predecessors' discoveries to move the practice of fashion forward.

The 1st edition, Sustainable Fashion: Past, Present and Future, emerged from the Museum at FIT's groundbreaking exhibition 'Eco-Fashion: Going Green'. This revised edition broadens perspectives even further, incorporating eye-opening examples of designers, brands and activists working for change across the world today. Likewise, a new chapter examines the globalized mainstream fashion system and historical alternatives that provide compelling inspiration for reimagining the status quo.

Fascinating and timely, *Historical Perspectives on Sustainable Fashion* examines progressive fashion through a historical lens, encouraging readers to question the state of the industry and demonstrating the value of historical insights in enabling and inspiring change.

TD687/Ho345



Tonti, L. (2023). *Sundressed : Natural Fabrics and the Future of Clothing*. Island Press. ISBN 9781642832716

For conscious consumers, buying clothes has never been more complicated. Even as fashion brands tout their sustainability, the industry is plagued by pollution, waste, and poor working conditions. In fact, fashion may account for as much as 10% of all greenhouse gas emissions. If our clothes reflect our values, is it possible to be truly well-dressed?

Sustainable fashion consultant Lucianne Tonti answers with a resounding yes. Beautiful clothes made from natural fabrics including cotton, wool, flax, and cashmere can support rural communities and regenerate landscapes. They can also reduce waste – but only if we invest in garments that stand the test of time rather than chasing fast fashion trends.

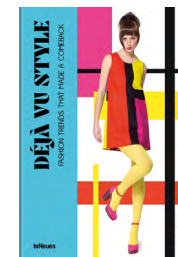
In *Sundressed*, Tonti travels the world to showcase producers who are reforming the industry, from Mongolian goatherders, to Mulberry groves in China, and American hemp farms. Many of these innovations begin in the fields, with the cotton crops that will ultimately be spun into a soft T-shirt or the sheep's wool than will be knitted into a cozy sweater. Fiber farmers are taking a page from the regenerative agriculture movement, giving back to the land as they tend it. Meanwhile, further down the supply chain, top designers are working with Indigenous communities to relearn the artistry of sewing-and reward

them financially. And global brands, including Levi's, are working to produce a pair of jeans that can withstand dozens of washes without any sign of wear.

Tonti also shows readers how accessible sustainable fashion can be. Not everyone can afford a designer shirt that was lovingly hand-sewn. But most of us can buy less, choose natural fabrics over polyester, thrift shop, and wear our clothes longer.

Sundressed is an exploration of a revolution taking place in fashion. And it is a love letter to clothing that embodies beauty and value, from farm to closet.

TD687/To530



Toromanoff, A., & Toromanoff, P. (2022). *Mode : Trends, die Immer Wiederkehren = Déjà vu Style : Fashion Trends That Made a Comeback*. teNeues. ISBN 9783961714216

One fashion sin is another trend part. Opinions about tapered pants, shoulder pads and leopard prints may differ, but the fact is that (almost) every trend in fashion comes back at some point. So it's hardly surprising that the pants of the 1980s – nowadays called mom jeans – are celebrating a grandiose comeback and that other parts that were thought to have long since been buried in the fashion graveyard are also experiencing amazing revivals. But how does this resurgence of past trends come about in the first place and how can you predict when a piece will be hip again?

Déjà Vu Style is dedicated to these special pieces, illuminating their history, showing celebrities who shaped the style and explaining their comeback. From the 1960s miniskirt, to the 70s crochet dress, to the 90s platform soles, to the 2000s Y2K trend, they're all brought together in this informative and entertaining fashion book. Fashion historians and vintage fashion experts provide additional exciting background knowledge. The current topic of green fashion is also taken up here, because nothing counteracts the phenomenon of fast fashion more sustainably than wearing rediscovered old fashion treasures from your mother or grandma.

TD687"19"/To670

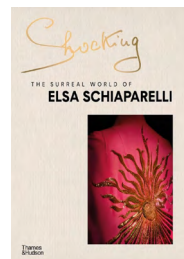


Lowe, A. (2023). *Fashion Brand Management: Plan, Scale and Market a Successful Fashion Business*. Kogan Page. ISBN 9781398609006

Fashion Brand Management is a complete guide to operating a fashion business in a multi-trillion revenue industry. Written by a leading innovator in the space, it describes how to gain competitive advantage, meaningfully embrace sustainability and purpose and successfully market to and engage consumers. Balancing theory with practical applications throughout, it also explores the key business models and financial management processes used in the industry and how fashion brands can build entrepreneurial advantage.

Exploring the key challenges and opportunities for today's fashion businesses both large and small, *Fashion Brand Management* examines supply chain disruption, social selling and technological innovations including the metaverse, digital collections and blockchain. Featuring case studies from a range of innovative global brands including Ecoalf, MWHQ, Pala Eyewear and Unhidden, in-text features include learning objectives, key terms and activities. With supporting online resources consisting of lecture slides, self-test questions, group activities and worksheets, this is an essential resource for fashion students.

TD687/L0900



Carron de la Carrière, M.-S. (Ed.). (2022). *Shocking: The Surreal World of Elsa Schiaparelli*. Thames & Hudson. ISBN 9780500025949

Brilliant, witty and liberated, Elsa Schiaparelli (1890-1973) was a key figure in the world of mid-20th century fashion. From her first sweaters in 1927, decorated with *trompe-l'œil* bow motifs, to her baroque gowns of the early 1950s, via her designs inspired by her friendship with Surrealist artists – the lobster dress and shoe-hat inspired by Salvador Dali, and her collaborations with Man Ray and Jean Cocteau – this striking and talented woman shaped fashion history with her vivid imagination. Her salons in the Place Vendôme were designed by Jean-Michel Frank, and her designs immortalized in sketches by Leonor Fini and Marcel Vertes. Diving into the world of Schiaparelli is a fascinating journey into the heart of Paris couture.

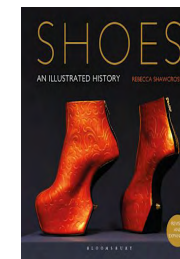
TD687(092)/Sc272



Long, D. (2020). *The Hats That Made Britain: A History of the Nation Through Its Headwear*. The History Press. ISBN 9780750993814

Many of the world's most famous hats have their origins in Britain; in the Middle Ages there were civil and religious laws requiring hats to be worn and in Victorian Britain a person would no more leave home without a hat than a pair of trousers. It is no surprise that London's oldest surviving shop, Lock and Co., is a hatter. From practical everyday caps and bonnets to military headwear, top hats, and even the coronation crown, hats of all sorts have passed through its doors and continue to do so after more than 300 years. In this fascinating new book David Long reveals how much of Britain's social history can be understood through its headwear, and in exploring the ways in which a hat speaks volumes about its wearer's rank and status he tells the stories of the people beneath some of the most famous hats of history.

TD687.4/L0370



Shawcross, R. (2023). *Shoes: An Illustrated History*. Bloomsbury Visual Arts. ISBN 9781350266476

From chopines to stilettos, Louis XIV to Louboutin, *Shoes: An Illustrated History* is the definitive guide to footwear. This revised, updated edition expands the classic work to include new content on environmental and sustainability issues, and increased coverage of more diverse, inclusive and contemporary designers – such as Rupert Sanderson, Sophia Webster, Nicolas Kirkwood, Charlotte Olympia, Amina Muaddi, Noritaka Tatehana.

Shoes have always been more than just a practical necessity. They reveal the culture of the times in which they were worn – the sexual morals, the social power play, as well as the endless shifting of fashion. Rebecca Shawcross takes the reader on a fascinating journey – packed with social and historical detail – of making and wearing, of the spectacular and the everyday, of conforming and rebelling.

Lavishly illustrated with a dazzling array of shoes from all over the world and now including a new closing chapter covering the latest developments in design and technology, the influence of social media and celebrity endorsement, this revision consolidates the book's position as the leading reference work and overview of this ultimate object of desire, from antiquity to the present.

TD685.3/Sh213



Geczy, A., & Karaminas, V. (2022). *Gastrofashion : From Haute Cuisine to Haute Couture : Fashion and Food*. Bloomsbury Visual Arts. ISBN 9781350147508

Gastrofashion: From Haute Cuisine to Haute Couture examines the relationship between food and fashion in clothing, style, and dress in all its manifestations, from the restaurant to the catwalk, to cookbooks, diet fads, slow food, fast fashion, celebrity chefs, artists, and musical performers. It traces the relationship between food and fashion back to the Middle Ages, to the rise of social refinements in manners, speech, clothing, and taste, when behaviours and appearances reflected social status and propriety and where the social display of wealth and privilege were inseparable from food and clothing. Nowadays, designer eateries such as Pasticceria Prada and Armani Ristorante and the display of food on fashion catwalks are the precursors of the restaurants of pre-Revolutionary France and the spectacles of world fairs and exhibitions.

This much-needed book offers a substantive and incisive discussion for all those interested in the complex interrelationship between food and fashion – scholars, students, and general readers alike.

TD687/Ge045



Marra-Alvarez, M., & Way, E. (Eds.). (2022). *Food and Fashion*. Bloomsbury Visual Arts. ISBN 9781350164345

Food and Fashion accompanies a major exhibition at The Museum at FIT, New York's only museum dedicated solely to the art of fashion. This beautifully illustrated book featuring over 100 enticing full-color images, from fashion runways to fine art photography and period cookbooks, examines the influence of food culture through the lens of fashion over the last 250 years. It focuses on the ways that food culture has expressed itself in fashion and how these connect to broader socio-cultural change, examining how vital both have been in expressing cultural movements across centuries, and specifically exploring the role food plays in fashionable expression.

With its superb selection of images, and thought-provoking and engaging discussion, *Food and Fashion* appeals to fashion enthusiasts who have an overlapping interest in food and food studies, including scholars and students, those who enjoy the fashion of food, and all who appreciate the visual culture of food, fashion, and art.

TD687(09)/Fo440