

# Jauniegvumu apskats: Tehnoloģiju & dabaszinātņu izdevumi svešvalodās



L N B

LATVIJAS  
NACIONĀLĀ  
BIBLIOTĒKA

Nr. 3 / 2024  
Septembris



Seko mums [lnb.lv](http://lnb.lv)

## Saturs

Priekšvārds | 2

Dabaszinātnes | 3

Medicīna. Sports | 5

Inženierzinātnes. Tehnoloģijas | 9

Lauksaimniecība | 13

Pārtikas zinātnes | 16

Skaistuma industrija | 18

### Nozaru literatūras centra lasītavas:

Baltijas Austrumāzijas pētniecības centra  
bibliotēkas lasītava (AsiaRes, M stāvs):  
[asiaresbibl@lnb.lv](mailto:asiaresbibl@lnb.lv)

Džona Ficdžeralda Kenedija lasītava (3. stāvs):  
[kristaps.kuplais@lnb.lv](mailto:kristaps.kuplais@lnb.lv)

Ekonomikas un tiesību zinātņu lasītava (2. stāvs):  
[jurzin@lnb.lv](mailto:jurzin@lnb.lv)

Jesajas Berlina Humanitāro un sociālo zinātņu  
lasītava (2. stāvs): [soczin@lnb.lv](mailto:soczin@lnb.lv)

Tehnoloģiju un dabaszinātņu lasītava (3. stāvs):  
[tehnologijas@lnb.lv](mailto:tehnologijas@lnb.lv)

ISSN 2592-9097  
Izdevums iznāk kopš 2022. gada februāra četras  
reizes gadā - februārī, maijā, septembrī, novembrī

## Priekšvārds

Pēdējie mēneši aizvadīti sporta zīmē. Parizē noslēgušās 2024. gada vasaras olimpiskās un paraolimpiskās spēles. Izdevuma *Jauniegvumu apskats: Tehnoloģiju un dabaszinātņu izdevumi svešvalodās (JA)* septembra numura sporta sadaļā ietvertas grāmatas, kas veltītas vairākiem vasaras olimpiskajās spēlēs iekļautajiem sporta veidiem. No 6. - 8. lappusei skatiet izdevumus par paukošanu (grāmatā apskatīta paukošana ar floreti), triatlonu, airēšanu un džudo. Savukārt, apmeklējot Latvijas Nacionālo bibliotēku (LNB) klātienē, aicinām skatīt arī citiem sporta veidiem veltītus izdevumus. Tie daudzveidīgā klāstā pieejami Tehnoloģiju un dabaszinātņu lasītavas krājumā.

Sporta notikumi nav iedomājami bez līdzjutēju klātbūtnes un atbalsta. Saistoša lasāmviela ikvienam, kurš interesējas par fanu subkultūru, būs rokasgrāmata "*Routledge Handbook of Sport Fans and Fandom*". Tajā detalizēti pētītas un aprakstītas dažādu sporta veidu un notikumu (arī olimpisko un paraolimpisko spēļu) fanu grupas, kas sportistiem ir tik nozīmīgas.

Pārējo JA iekļauto izdevumu tēmu loks ir plašs. Klikšķiniet uz interesējošās nodaļas satura rādītāja saites un iepazīstieties ar jaunāko dabaszinātņu, medicīnas, inženierzinātņu, tehnoloģiju, lauksaimniecības, pārtikas zinātņu un/vai skaistuma industrijas nozaru izdevumu anotācijām.

Atsauksmes un ierosinājumus lūdzam sūtīt redakcijai: [tehnologijas@lnb.lv](mailto:tehnologijas@lnb.lv)

\* Piekļuve e-grāmatām ar LNB pieejas datiem tiek nodrošināta attiecīgās tiešsaistes datubāzes abonēšanas periodā.

### Redakcijas adrese:

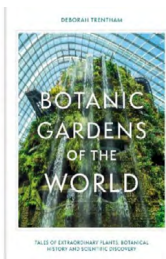
Tehnoloģiju un dabaszinātņu lasītava  
Nozaru literatūras centrs  
Latvijas Nacionālā bibliotēka  
Mūkusalas iela 3, Rīga, LV-1423  
Tālr.: 67806132  
E-pasts: [tehnologijas@lnb.lv](mailto:tehnologijas@lnb.lv)

### Redaktore & maketētāja:

Zane Bondare  
E-pasts: [zane.bondare@lnb.lv](mailto:zane.bondare@lnb.lv)  
**Informāciju sagatavoja:**  
LNB informācijas speciālisti



Abonējiet izdevumu, skenējot QR kodu vai aizpildot iesniegumu elektroniski



Trentham, D. (2023). *Botanic Gardens of the World : Tales of Extraordinary Plants, Botanical History and Scientific Discovery*. Greenfinch. ISBN 9781529428094

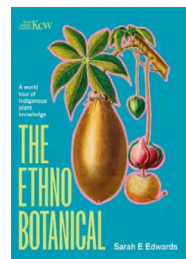
Discover the beauty and history of the most important and inspiring botanic gardens from across the globe.

From the classic Renaissance gardens of Italy to the futuristic botanical wonders in Singapore, this stunning book tells the compelling story of these horticultural institutions. Open to all, botanic gardens were created as both civic sanctuaries and centres of botanical science – and they are enduring monuments to the intertwined history of plants and people.

Discover tales of exploration, extraordinary specimens, scientific breakthroughs and the cutting-edge conservation efforts which have shaped each garden.

Filled with rare and beautiful plants and locations from around the globe – from Norway to Morocco, Kyoto to Kew, Brooklyn to Buenos Aires – this is a celebration of the world's greatest botanical havens and the natural wonders they protect.

**TD58/Tr398**



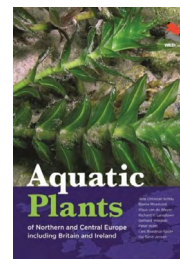
Edwards, S.E. (2023). *The Ethnobotanical : A World Tour of Indigenous Plant Knowledge*. Greenfinch. ISBN 9781529427400

Since the dawn of humanity, the lives of plants and people have been intimately interwoven. Plants are fundamental to our survival – they sustain us with air to breathe, food to eat, materials to make clothes and shelter with, and medicine to treat and prevent disease.

Western nations claimed to have discovered innumerable plant species over the course of their colonial history, yet within Indigenous cultures these plants have been known, and their significance recognized, for centuries. Beautifully illustrated with 100+ botanical artworks from the archives of the Royal Botanic Gardens, Kew, *The Ethnobotanical* shines a spotlight on this traditional knowledge through the stories of plants from across the globe.

From plant origin myths, such as the Mesoamerican legend of the princess who was turned into a vanilla flower after rejecting the advances of a god, to their practical uses, such as the oil of India's neem tree which acts as a mosquito repellent to prevent malaria, *The Ethnobotanical* offers a unique perspective on plants and the interconnectedness of plants and culture, which benefits biodiversity, the natural world and humankind, too.

**TD581.6/Ed930**

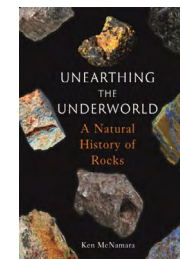


Schou, J.K., Moeslund, B., van de Weyer, K., & et al. (2023). *Aquatic Plants of Northern and Central Europe including Britain and Ireland*. Princeton University Press. ISBN 9780691251011

Beneath the surface of bodies of fresh-water – springs, streams, rivers, ponds and lakes – there is a world of plants of great variety and beauty, a realm that is often poorly known and understood. Correctly identified, these plants can tell us much about the character and condition of the habitats in which they live. A collaboration of Danish, German, and British field botanists specializing in freshwater plants, this guide presents all of the known aquatic plants of Northern and Central Europe, including Britain and Ireland, as well as many marginal and wetland species.

This is the first comprehensive guide to the identification of the region's 410 species and hybrids of both native and non-native ferns and flowering plants that are dependent upon fresh-water wetlands. Following the latest taxonomy, the book features 358 plates in pen and ink, more than 1,400 colour photographs, illustrated keys, distribution maps and detailed descriptions. The introduction gives an overview of evolution, anatomy and morphology, ecology, eco-physiology, research traditions and more, and the book also includes guidelines for working with aquatic plants.

**TD582/Aq195**



McNamara, K. (2023). *Unearthing the Underworld : A Natural History of Rocks*. Reaktion Books. ISBN 9781789147186

*Unearthing the Underworld* is a history of the Earth as told through rocks – the secret-keepers of past environments, changing climates and the pulse of life over billions of years. Even the most ordinary looking stone can tell us much about the history of this planet, opening vistas of ancient lands of ice, raging floods, strange, unbreathable atmospheres and prehistoric worlds teeming with life.

Remarkably, many types of rock owe their existence to living organisms, from the remains of dead animals to rotting ancient forests, or even the activity of fungi, bacteria and viruses. Anything but dull and uninteresting, rocks are intriguing portals that illuminate the secret underworld upon which we live.

**TD553/Mc200**



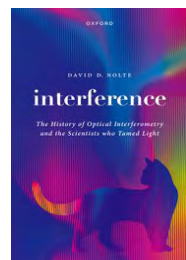
**Gbur, G.J. (2023).**  
*Invisibility: The History and Science of How Not to Be Seen.* Yale University Press.  
ISBN 9780300250428

Is it possible for something or someone to be made invisible? This question, which has intrigued authors of science fiction for over a century, has become a headline-grabbing topic of scientific research.

Science writer and optical physicist Gregory J. Gbur traces the science of invisibility from its sci-fi origins in the nineteenth-century writings of authors such as H. G. Wells and Fitz James O'Brien to modern stealth technology, invisibility cloaks, and metamaterials. He explores the history of invisibility and its science and technology connections, including the discovery of the electromagnetic spectrum, the development of the atomic model, and quantum theory. He shows how invisibility has moved from fiction to reality, and he questions the hidden paths that lie ahead for researchers.

This is not only the story of invisibility but also the story of humankind's understanding of the nature of light itself, and of the many fascinating figures whose discoveries advanced this knowledge.

**TD535/Gb999**

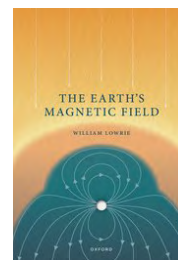


**Nolte, D.D. (2023).**  
*Interference: The History of Optical Interferometry and the Scientists Who Tamed Light.* Oxford University Press.  
ISBN 9780192869760

Ever wonder why soap bubbles become invisible right before they pop? Or why lenses are so blue they look purple? How is it possible to image black holes at the heart of distant galaxies? The answer to all these questions is interference. This book tells the story of the science of optical interferometry – mankind's most sensitive form of measurement – and of the scientists who tamed light to make outstanding discoveries, from lasers and holograms to astronomy and quantum physics.

In the past several years, interferometry has been used to discover exoplanets orbiting distant stars, to take the first image of a black hole, to detect the first gravitational waves, and to create the first programmable quantum computer. This list of achievements points to the fertile and active field of interferometry for which this book will provide a convenient and updated guide for a wide audience interested in the science of light.

**TD535/No263**



**Lowrie, W. (2023).** *The Earth's Magnetic Field.* Oxford University Press.  
ISBN 9780192862686

The Earth's magnetic field has existed for hundreds of millions of years, far longer than life has existed on Earth, and it affects our lives in many ways. We can use it to orient buildings, to navigate across unmarked territory, and to protect us from harmful radiation from space.

Intended as an introductory guide for nonspecialist readers, this book describes the historical importance of the Earth's magnetic field and its role in protecting the planet from harmful high-energy radiation from the Sun. With explanations of the underlying physics of processes and references to original scientific works, the reader can explore the Earth's magnetic field and the various ways in which geomagnetism is used and measured, including the analysis of modern satellite-based investigations and the effects of solar activity on the geomagnetic field.

**TD55/Lo947**



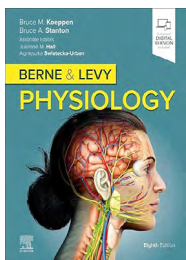
**Bluestein, H.B. (2024).**  
*The Architecture of Clouds.* Oxford University Press.  
ISBN 9780198870548

*The Architecture of Clouds* describes in a visual, poetic, and personal way how clouds are related to our everyday life and the weather. It expertly details how the art and science of clouds are interconnected with straightforward scientific explanations of the meteorological context in which clouds appear and why they form, alongside in-depth descriptions of the visual and artistic aspects of clouds. The air motion dynamics, cloud microphysics, and thermodynamics discussed are written in a style accessible to all readers.

The clouds showcased within the text range from placid ground fog to smoothly sculpted, stationary, mountain-wave clouds to violent clouds associated with convective storms, tornadoes, and hurricanes. Clouds are classified as whether they are buoyant or not, and if they are, how deep they extend through the atmosphere. An exhaustive and impressive compilation of photos taken from all over the world, including photographs taken from satellites, are featured in each chapter. Radar depictions of the inside of some clouds and storms provide a unique addition.

This book provides an abundance of detail and photography that will be appreciated by scientists, students, and any reader interested in exploring beyond the aesthetics of clouds.

**TD551.5/Bl880**

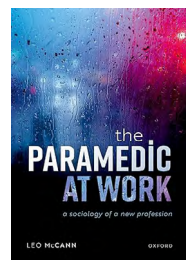


Koepfen, B.M., & Stanton, B.A. (Eds.). (2024). *Berne & Levy Physiology* (8th ed.). Elsevier. ISBN 9780323847902

Pairing necessary detail with concise readability, *Berne & Levy Physiology, 8th Edition*, provides a perfect balance of content to deliver an in-depth understanding of the body's dynamic processes. Long respected for its scientifically rigorous approach, this highly regarded, mid-size text offers essential physiology with integrated coverage of biophysics and key experimental observations and examples – all designed to provide a solid scientific foundation in physiology for future scientists and clinicians.

- Uses a logical, organ system-based approach that clearly describes all of the mechanisms that control and regulate bodily function;
- Includes new clinical case examples, as well as *In the Clinic* and *At the Molecular Level* boxes, that highlight practical aspects of this fundamental science;
- Provides key experimental observations and examples that offer a rich understanding of the body's dynamic processes;
- Discusses recent discoveries such as the role of lymphatics in the nervous system;
- Begins each chapter with a bulleted list of questions and ends with key concepts covered in that chapter.

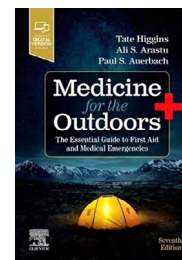
**TD612/Be630**



McCann, L. (2022). *The Paramedic at Work : A Sociology of a New Profession*. Oxford University Press. ISBN 9780198816362

Leo McCann offers the first book-length study of the paramedic profession in England. Based on in-depth interviews and ethnographic observation, *The Paramedic at Work* provides a detailed account of the complex realities of work in this fascinating occupation. Chapters explore the nature of work 'out on the road', the peculiarities of ambulance organizational culture, the intensity of workplace stress and burnout, and the current and future trajectory of paramedic professionalism. The book documents the unique paradoxes experienced by those employed in this line of work. Ambulance staff are trained to handle life-threatening trauma and disease, but most callouts consist of unplanned primary care. Paramedic work features wide autonomy but is also bound into an array of micromanaging performance indicators. Paramedics are trusted and respected in society but the profession is poorly understood and employers can be unsupportive. However, no matter how intense the personal struggles can be, paramedic work also offers rare opportunities for meaningful and socially valued work. This book shows that the role and status of the paramedic are rapidly moving from a manual occupation rooted in first aid and transportation to a clinical profession of increasing scope, versatility, and social respect.

**TD616-083.98/Mc001**



Higgins, T., Arastu, A.S., & Auerbach, P.S. (2024). *Medicine for the Outdoors : The Essential Guide to First Aid and Medical Emergencies* (7th ed.). Elsevier. ISBN 9780323680561

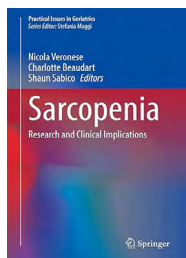
For nearly 40 years, *Medicine for the Outdoors: The Essential Guide to First Aid and Medical Emergencies* has been the take-along manual of choice for anyone venturing into the mountains, forest, desert, or on water. This essential guide provides highly illustrated, easy-to-follow guidance on immediate stabilization and treatment of persons with virtually any possible medical problem – designed for on-the-spot use when higher-level medical care is not accessible. Written by experts in outdoor medicine, this updated edition helps you manage any situation until medical personnel can take over.

- Covers key information on a wide range of disorders related to specific environments, including natural disasters, high-altitude problems, water-related incidents, heat- and cold-related illnesses, and wildland fires;
- Provides easy-to-understand recommendations for dealing with animal attacks, venomous wildlife, wild plant and mushroom poisoning, minor and major medical problems, infectious diseases, water disinfection, and severe bleeding;
- Discusses key topics, including antibiotics, medicines, opioid overdose treatment, wound closure techniques, severe bleeding, spinal assessment and immobilization, tourniquets, the use of a Gamow bag for severe altitude illness,

splinting, dental emergencies, disaster preparedness, global conflict guidelines, canine medicine, today's infectious disease threats, and much more;

- Includes up-to-date guidelines, even more helpful illustrations and diagrams, and a new chapter: *Patient Assessment – A Structured Approach to Emergencies in the Outdoors*;
- Includes advanced topics valuable to physicians and expedition medical staff at all levels of training and experience.

**TD616-083.98/Hi161**



**Veronese, N., Beaudart, C., & Sabico, S. (Eds.). (2021). *Sarcopenia : Research and Clinical Implications*. Springer. ISBN 9783030800406**

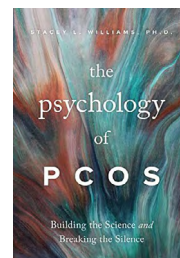
This book offers a concise and updated guide for all readers (physicians and non-physicians) interested in gaining a comprehensive and precise understanding of sarcopenia.

Over the last several years, sarcopenia has increasingly developed from being a concept known only in research settings to one that is commonly explored in journals and scientific meetings for various disciplines, such as geriatrics, rheumatology and rehabilitation medicine. Thus, all domains of sarcopenia, from molecular aspects to clinical management, represent highly active areas of research and clinical practice for health professionals in a variety of fields, including geriatric medicine, nutrition, and epidemiology. Despite being a relatively new concept in medicine, sarcopenia is increasingly being recognized as an important determinant of other health conditions, including mortality and disability.

This book, written by experts from around the globe, covers several core aspects of sarcopenia management, from molecular mechanisms to genetics, epidemiology, diagnosis and finally treatment, including the clinical impact of sarcopenia as a risk factor, the known genetic and molecular aspects that can aid in predicting sarcopenia, and selected treatment and therapy concepts, including indications for nutrition and

physical exercise. Sharing data from the latest studies, it will be of considerable interest not only for geriatricians, but also for a wide range of other readers.

**TD616.7/Sa703**

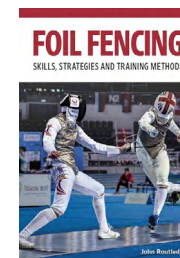


**Williams, S.L. (2023). *The Psychology of PCOS : Building the Science and Breaking the Silence*. American Psychological Association. ISBN 9781433837760**

Polycystic ovary syndrome (PCOS) can cause a wide range of symptoms, including menstrual irregularities, infertility, insulin resistance, excess and male-patterned body hair, as well as depression and anxiety. PCOS affects everything from one's self-conception and identity to social relationships, intimacy, and sexuality. Yet, the literature has been largely silent regarding the personal and psychosocial experiences of those with PCOS.

This book aims to break the cultural silence surrounding PCOS by weaving together stories of personal experiences with the condition, alongside cutting-edge psychological and social science research. Using clear and compelling language, the author promotes a wider understanding of PCOS, calls attention to areas of research need, offers insight to mental health providers who have clients with PCOS, and aims to inspire more positive outcomes for individuals with PCOS.

**TD618/Wi482**



**Routledge, J. (2022). *Foil Fencing : Skills, Strategies and Training Methods*. The Crowood Press. ISBN 9780719841088**

Fencing is a sport that demands exceptional speed, agility and timing. As the lightest of the three weapons, the foil additionally requires precise technique and intelligent strategies – something that only comes with practice.

Combining the author's advanced knowledge of foil fencing and background in visual communication, this practical book offers key exercises for developing technique, providing a comprehensive insight into the skills and strategies needed to become a competitive fencer.

Key topics covered include:

- The best moments to initiate an attack;
- How to understand distance and timing;
- Footwork exercises, with illustrated examples;
- How to effectively employ reconnaissance and counter reconnaissance;
- How to achieve optimal performance on the day of a competition;
- Best practices employed by top international fencers.

Featuring over 120 stunning illustrations and precise, detailed diagrams, *Foil Fencing: Skills, Strategies and Training Methods* is a visually unique resource that will help fencers and coaches of all levels to elevate their game.

**TD796.8/Ro852**



Schmidt-Wendling, M. (2024). *Triathlon Success : The Ultimate Training Guide to Winning the Long-Distance Triathlon*. Meyer & Meyer Sport. ISBN 9781782552628

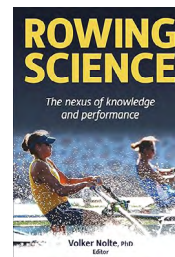
Long-distance triathlons are becoming increasingly popular as thousands of athletes compete in more than 200 races globally each season. Every one of these athletes requires quality training information and experienced coaching advice. Drawing on his 20 years of coaching experience, Mario Schmidt-Wendling provides the best training information for ambitious triathletes competing in Olympic- to Ironman-distance triathlons, making *Triathlon Success* a must-have practical guide.

This book does not offer generally formulated training plans, but rather considers an athlete's individual situation, such as their performance level, which means the athlete is given the most important basics to be able to make the right decisions for his or her own training. Trainers will also find the book useful as both their work and the most important aspects of training theory for the long-distance triathlon are highlighted and explained.

In addition to the extensive material on training and competition, the triathlete will find relevant information on equipment, nutrition, and even how to prevent those typical mistakes made during training in all three disciplines. All of the training content is enriched by numerous practical examples, and the provided test procedures help triathletes diagnose their own

progress. Useful information on topics such as injuries, illness, and training and competing in the heat, as well as a sample 16-week training plan round out this ultimate training guide.

**TD796.6/Sc486**



Nolte, V. (Ed.). (2024). *Rowing Science : The Nexus of Knowledge and Performance*. Human Kinetics. ISBN 9781492594383

Master the swing with advice from a class of rowing's elite. *Rowing Science* offers serious rowers and coaches the in-depth, evidence-based information needed to optimize rowing skills and elevate performance.

Dr. Volker Nolte, a world-renowned rowing expert and coach, is joined by the world's top sport scientists as they break down the latest research and apply it across all aspects of the sport. The depth and scope of content are unmatched, as the text provides long-needed insights into topics like these:

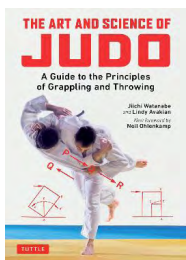
- The role of biological attributes, physiology, and metabolism in rowing success;
- The biomechanics of stroke efficiency;
- Critical components of rowing training programs;
- Nutrition and injury prevention;
- Mental toughness;
- The importance of team culture.

Throughout, you'll find facts and key points that apply the science to show how it contributes to a rower's success. Additionally, you'll discover modifications for special groups such as open water rowers, para rowers, and master rowers.

The perfect blend of science and application, *Rowing Science* takes you inside the sport, into the training room and research lab, and onto the water. It's a remarkable work and is a must-

own for any rower, coach, or sport scientist who's serious about performance.

**TD797/Ro888**



Watanabe, J., & Avakian, L. (2022). *The Art and Science of Judo: A Guide to the Principles of Grappling and Throwing*. Tuttle Publishing. ISBN 9780804852234

Authors Jiichi Watanabe and Lindy Avakian delve deeply into the mechanics of Judo, offering clear scientific explanations for the techniques involved in throwing and grappling. By understanding the science behind the sport, you will be prepared to perform the right moves at the right time and successfully meet the challenge of responding to your opponent.

This book has over 200 illustrations and 40 photos which show the forces that are employed when performing common Judo throws and grappling moves such as hip throws, foot sweeps, collar holds, and many more. In addition to the precise explanations of Judo's physical aspects, you'll find detailed insights into the psychological factors underlying Judo's philosophy.

The topics covered in this book include:

- How dynamics are applied in Judo;
- The three underlying principles for practicing Judo;
- The three laws of motion and how they apply;
- Different kinds of forces used in Judo techniques;
- How to effectively practice throwing and grappling.

A new foreword by master Judo instructor Neil Ohlenkamp offers insight on the book's importance as a resource for Judo practitioners

and instructors. *The Art and Science of Judo* is a fascinating and valuable work which will help you achieve success not only by understanding how to master the techniques but also why they work and when to use them.

**TD796.85/Wa890**



Coombs, D.S., & Osborne, A.C. (Eds.). (2022). *Routledge Handbook of Sport Fans and Fandom*. Routledge. ISBN 9781032224350

This is the first book to explore the full significance of sport fans and fandom from an international and interdisciplinary perspective, across different sports, communities and levels of engagement. It gives a comprehensive overview of the undeniable economic and cultural influence of sport industries for which fans are the driving force.

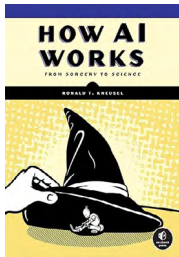
The book examines different theoretical and methodological approaches to the study of fans, including typologies of fandom, and presents cutting-edge discussion across broad thematic areas such as performance and identity, the business of fandom, and fandom and media. It considers the experiences of diverse and marginalized fan groups, with an emphasis on intersectional analysis, and shines new light on key contemporary themes such as fan activism, violence and deviance, mobility and migration, and the transformative effects of digital and social media. This volume includes chapters by many of the leading scholars responsible for having laid the foundation for sport fan research as well as early-career scholars who examine the newest developments in media technologies, legalized betting, gaming, and fantasy sports.

Including perspectives from disciplines such as philosophy, sociology, psychology, management, economics, and media studies, this

book is essential reading for anybody interested in the study of sport and wider society or fans and subcultures more broadly.

**TD796/Ro852**





Kneusel, R.T. (2024). *How AI Works : From Sorcery to Science*. No Starch Press. ISBN 9781718503724

Many books teach you how to do AI. Others tell you about it at a superficial level. This one explains how AI works, without the complex mathematics.

Drawing upon over 20 years of experience in the field, Ronald T. Kneusel guides you through AI's backstory, shedding light on the predecessors that paved the way for modern advancements and the classical models that started it all. You'll learn how neural networks work and how convolutional networks learn to identify and classify images.

You'll venture into cutting-edge realms of AI such as generative adversarial networks and diffusion models and learn how they've evolved to generate complex, realistic images from mere text prompts. Finally, you'll discover how large language models (LLMs) understand and produce human-like text, why many consider them to be the dawn of true AI, and how they might shape our future.

You'll also explore:

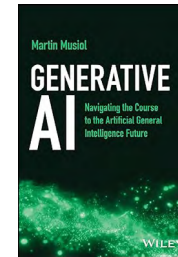
- The relationship between artificial intelligence, machine learning, and deep learning;
- The history behind AI and why the artificial intelligence revolution is happening now;
- How symbolic AI failed but paved the way for the emergence of neural networks;
- How neural networks are trained and

applied to accomplish what was once deemed impossible;

- How LLMs like ChatGPT and Bard could change our world and everyday lives.

AI is wizard-like, but it isn't magic. If you've wondered how it works, what it can do, or why there's so much hype surrounding it, *How AI Works* will reveal this mysterious new world, all without a single equation.

**TD004.8/Kn385**



Musiol, M. (2024). *Generative AI : Navigating the Course to the Artificial General Intelligence Future*. John Wiley & Sons. ISBN 9781394205912

Even though generative artificial intelligence has been in development for nearly a decade, platforms like Bard and ChatGPT didn't burst onto the public scene until 2022. When they finally did, society's reaction was immediate and powerful. People were – and continue to be – fascinated by the current capabilities and potential of this technology.

In *Generative AI: Navigating the Course to the Artificial General Intelligence Future*, renowned AI educator and speaker Martin Musiol delivers an expert overview of the short – but eventful – history of generative artificial intelligence including his involvement in the development of many GenAI solutions GenAI Lead at Infosys. In the book, Musiol discusses generative AI's impressive achievements to date and explores how the technology is likely to evolve in the near future.

The author breaks down complex, but foundational, generative AI concepts into simple and easy-to-understand pieces. You'll discover the promising future of this relatively novel technology and why it's likely that different types of models will merge into broader AI models, paving the way for Artificial General Intelligence (AGI) and Autonomous AI Agents.

*Generative AI* examines artificial intelligence's potential to transform a wide variety of

industries, individuals, and societies. It also offers incisive explorations of the ethical implications of generative AI, including the potential for misuse, biased models, and workforce replacement, as well as the potential upsides, like the creation of new jobs and new ways of working.

Perfect for anyone interested in the intersection of technology, society, ethics, and business, *Generative AI* is an engaging and singular analysis of one of the most promising technologies to be released to the public since the world wide web.

**TD004.8/Mu740**



Kurpicz-Briki, M. (2023). *More than a Chatbot: Language Models Demystified*. Springer. ISBN 9783031376894

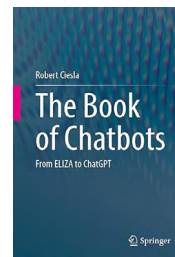
Recent technological advances have resulted in a new generation of powerful text processing and generation tools, that produce text very similar to what a human could do. Such tools have the potential to change the way we work, learn and teach – and this book enables you to understand and be part of this exciting development.

Did you wonder how tools like ChatGPT or Bard work, but do not have a technical background? Then this is the right book for you! To discuss and better understand what such technologies are capable of and how this will impact our lives and our society, a basic background knowledge about text processing and generation technologies is required. In particular, the book discusses the following questions: How did the field of automated text processing and generation evolve over the last years, and what happened to allow the incredible recent advances? Are chatbots such as ChatGPT or Bard truly understanding humans? What pitfalls exist and how are stereotypes of the society reflected in such models? What is the potential of such technology, and how will the digital society of the future look like in terms of human-chatbot-collaboration?

The book is aimed for a general audience, briefly explaining mathematical or technical

background when necessary. After having read this book, you will be confident to participate in public discussions about how this new generation of language models will impact society. You will be aware of the risks and pitfalls these technologies can bring along, and how to deal responsibly when making use of tools built from AI technology in general.

**TD004.8/Ku760**



Ciesla, R. (2024). *The Book of Chatbots: From ELIZA to ChatGPT*. Springer. ISBN 9783031510038

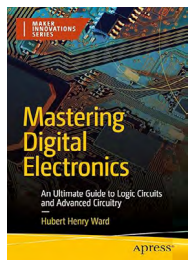
Primitive software chatbots emerged in the 1960s, evolving swiftly through the decades and becoming able to provide engaging human-to-computer interactions sometime in the 1990s. Today, conversational technology is ubiquitous in many homes. Paired with web-searching abilities and neural networking, modern chatbots are capable of many tasks and are a major driving force behind machine learning and the quest for strong artificial intelligence, also known as artificial general intelligence (AGI).

Sophisticated artificial intelligence is changing the online world as advanced software chatbots can provide customer service, research duties, and assist in healthcare. Modern chatbots have indeed numerous applications – including those of a malicious nature. They can write our essays, conduct autonomous scams, and potentially influence politics.

*The Book of Chatbots* is both a retrospective and a review of current artificial intelligence-driven conversational solutions. It explores their appeal to businesses and individuals as well as their greater social aspects, including the impact on academia. The book explains all relevant concepts for readers with no previous knowledge in these topics. Unearthing the secrets of virtual assistants such as the (in)famous ChatGPT and many other exciting technologies, *The Book of*

*Chatbots* is meant for anyone interested in the topic, laypeople and IT-enthusiasts alike.

**TD004.42/Ci250**



Ward, H.H. (2024). *Mastering Digital Electronics : An Ultimate Guide to Logic Circuits and Advanced Circuitry*. Apress. ISBN 9781484298800

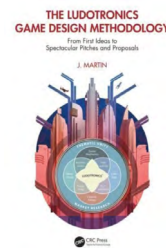
Discover the essential knowledge and practical skills to excel in the dynamic field of digital electronics with *Mastering Digital Electronics*. From the fundamentals of diode resistor logic to unraveling the intricacies of TTL and CMOS logic gates, this book takes you on a journey through the evolution of digital electronics. Starting with the humble SR latch and progressing to the revolutionary JK flip flop that powers today's computer technology, you'll gain a solid foundation in binary arithmetic, Boolean algebra, and the representation and optimization of digital circuits.

The book gives a firm understanding of digital electronics, then moves on to using standard design methods, such as state diagrams, to design everyday logic circuits such as counters, shift registers, PISO, and SIPO registers. It delves into how to design some challenging digital circuits such as a crossroad set of traffic lights with a pelican crossing and how to use the 555 timer to control a variety of applications. At every stage of the book, you will be learning how to use TINA version 12, an industry standard ECAD and many of its functions. Moreover, the book ventures into using the software to simulate and so confirm all the circuits you design.

For readers interested in advancing to the practical implementation of the circuits

discussed, the book provides opportunities to design PCB circuit boards for selected circuits using the software. This book will suit any student of digital electronics at any level and provide them with essential reference material for them to start a career in digital electronics.

**TD621.38/Wa630**



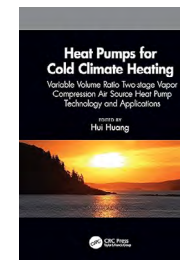
Martin, J. (2024). *The Ludotronics Game Design Methodology : From First Ideas to Spectacular Pitches and Proposals*. CRC Press. ISBN 9781032368702

This book supports readers to transition to more advanced independent game projects by deepening their understanding of the concept development process. It covers how to make concepts sufficiently viable, ambitious, and innovative to warrant the creation of a polished prototype in preparation of a publisher pitch.

The book is divided into six sections. After a brief tutorial (Preliminary Phase), readers embark on a journey along the book's methodology. They travel through successive conceptual phases (Preparations, Procedures, Processes, and Propositions); advance through levels and action beats in each of these phases; master challenges (conceptual tasks) and overcome level bosses (design decisions) that become successively harder; collect items (fulfilled documentation tasks); and "win" the game by having progressed from a raw, initial idea to a full-fledged, polished game treatment.

This book is designed to support junior and senior year BA or MA students in game design programs, as well as novice indie developers and those in the early stages of their game design career.

**TD004.9/Ma711**



Huang, H. (Ed.). (2024). *Heat Pumps for Cold Climate Heating*. CRC Press. ISBN 9781032658919

Air source heat pumps are mainly used for space heating, and have the advantages of environmental protection, energy saving, and comfort. Written by a leading heat pump technology expert Hui Huang, this book summarizes the research and applications of variable volume ratio two-stage vapor compression air source heat pump technology and Applications.

**TD697/He050**



**Cantor, J. (2022). *Heat Pumps for the Home* (2nd ed.). The Crowood Press. ISBN 9781785007798**

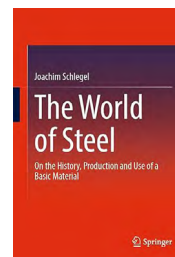
In recent years, heat pumps have emerged as a promising new form of technology with a relatively low environmental impact. Moreover, they have presented householders with an opportunity to reduce their heating bills. Heat pumps can heat a building by 'pumping' heat from either the ground or from the air outside: an intriguing process which utilizes principles that are somewhat analogous to those employed in the domestic refrigerator. Armed with the practical information contained in these pages, homeowners will have the necessary knowledge to take advantage of this potentially low-carbon technology to heat their properties.

- Describes what a heat pump is, how it works, the different methods of pumping heat and the importance of an appropriate and well-planned installation;
- Examines the air, the ground and water as sources of heat and explains how to make an informed choice;
- Considers the all-important subject of distributing the heat through radiators or through an under-floor system;
- Covers hot water production and delivery to the taps;
- Outlines environmental and financial issues associated with heat pumps;
- Dispels some common misconceptions

and presents a number of case studies.

Now in an updated new edition, this invaluable, jargon-free, well-illustrated book is essential reading for all those householders who are considering installing heat pumps in order to heat their homes in a more eco-friendly and efficient manner. *Heat Pumps for the Home* provides you with the information that you need in order to make up your own mind about whether a heat pump might be appropriate to your own circumstances, and also demonstrates what you need to do in order to make the system work efficiently. In addition, it will also be a very useful reference tool for architects, plumbers, heating engineers, builders and students who wish to learn more about this fascinating technology.

**TD697/Ca443**



**Schlegel, J. (2023). *The World of Steel: On the History, Production and Use of a Basic Material*. Springer. ISBN 9783658397326**

No matter where we are and what we are doing, steel is always present in our lives, at work or in our leisure time, sometimes even as a work of art. Steel is indispensable, recyclable and has a very special significance: in our modern industrial society, steel is the basic material for all important industrial sectors, such as automotive and shipbuilding, apparatus and mechanical engineering, bridge and structural steel engineering, energy and environmental technology, the packaging industry, the household and sports industry, medical technology, hydraulics and pneumatics, and many more. Today, the large-scale production and processing of steel is state of the art and the variety of steels developed is impressive. This world of steel is constantly evolving and has become astonishingly diverse, indeed so complex that it is not easy to keep track of in practice. The aim is to give the reader an understanding of this world, not in a highly scientific way, but in a technically correct and easily understandable way: from steel production, ingot and continuous casting, forming and mechanical processing to finishing, testing and packaging of the products, the processes and equipment predominantly used throughout, including the environmentally compatible recycling and disposal of waste. Interesting applications will also be highlighted.

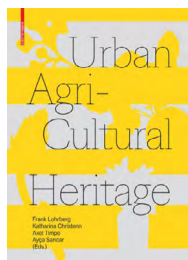
The target groups:

Students, practitioners, engineers and anyone interested in the history of technology.

The content:

- Systematization of materials;
- The material steel;
- Alloying elements and steel properties;
- Steel production;
- Forming;
- Heat treatment of steel;
- Materials testing;
- Production engineering processes;
- Finishing;
- By-products and waste;
- Steel in everyday life;
- Steel in the future;
- Chronological table on iron and steel;
- Glossary.

**TD669/Sc391**

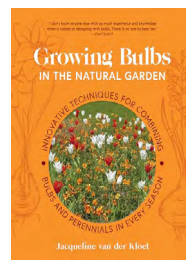


Lohrberg, F., Christenn, K., Timpe, A., & Sancar, A. (Eds.). (2023). *Urban Agri-Cultural Heritage*. Birkhäuser. ISBN 9783035622515

Urban agriculture has become an important element of sustainable planning in the context of urbanization amid limited resources. However, a consideration of its cultural-historical dimension has been lacking until now.

This book offers the first systematic approach to address urban agriculture as heritage. The editors present case studies of traditional forms of food production in cities from all over the world. By highlighting and reflecting active heritage approaches, both universal and local, they lay the groundwork for a new understanding: urban agriculture has a rich past that offers fascinating paths to sustain our future.

**TD63:711.4/Ur140**

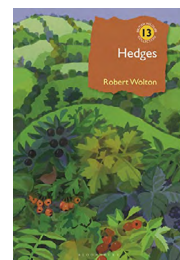


van der Kloet, J. (2024). *Growing Bulbs in the Natural Garden: Innovative Techniques for Combining Bulbs and Perennials in Every Season*. Timber Press. ISBN 9781643264028

From the earliest snowdrops to alpine violets, tulips, and late autumn crocuses, bulbs add interest and colour to the garden throughout the year. Renowned naturalistic garden designer Jacqueline van der Kloet has mastered a non-chalant and magical style, where bulbs emerge playfully, dancing among perennials and grasses.

*Growing Bulbs in the Natural Garden* provides inspiration and insights gained from van der Kloet's career, using nature as a model. This exquisitely photographed guide offers advice on bulb varieties, planting methods, and handy tools for gardeners working in spaces large and small.

**TD635.92/KI725**



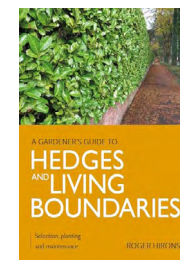
Wolton, R. (2024). *Hedges*. Bloomsbury Wildlife. ISBN 9781399411714

Hedges are vital for nature's recovery. With much of Britain and Ireland intensively farmed, hedges are often the only refuge for wildlife. They provide habitat for a wealth of native plants and animals, as well as connecting and binding together surviving fragments of woodland, scrub and flower-rich grassland. They also play an essential role in soil conservation, water cleansing and carbon capture.

In *Hedges*, the author brings together decades of research, as well as personal experience from his farm in Devon, to explore the ecology, wider environmental value and conservation of our hedges. Engaging and comprehensive, this book explores the benefits that good hedge management can bring to nature, agriculture and wider society – from providing food and shelter for wildlife, to boosting crop pollination and helping farmers adapt to climate change. Casting light on its essential but often undervalued place in our landscape, Wolton inspires us to protect and improve the remarkably rich hedgerow heritage we have in Britain and Ireland.

Containing more than 300 photographs and figures, this latest addition to the British Wildlife Collection is an authoritative commentary on hedges and our relationship with them, from one of our leading experts in the field.

**TD635.9/Wo470**



Hirons, R. (2022). *A Gardener's Guide to Hedges and Living Boundaries: Selection, Planting and Maintenance*. The Crowood Press. ISBN 9780719841255

Boundaries, borders and shelter are essential parts of any garden, but they can be the most difficult to get right. The excitement of buying new hedging plants can quickly be overtaken by difficult upkeep, damage to surrounding plants and a costly waste of time.

Whether you're planting a new hedge from scratch, restoring a neglected one or creating softer internal divides within the garden, this book provides the planning, planting and maintenance know-how to do it right, first time.

Coverage includes:

- Assessment, preparation and design advice for establishing a new living boundary;
- Directories of hedging plants, climbers and trees to aid your selection;
- Guidance on planting, training and supports;
- Advice on dealing with existing boundaries in need of restoration or extension;
- Considerations to take into account for both your human and wildlife neighbours;
- An analysis of common pitfalls and how to avoid them.

**TD635.9/Hi790**



Pavlis, R. (2023). *Microbe Science for Gardeners : Secrets to Better Plant Health*. New Society Publishers. ISBN 9780865719774

Microscopic organisms are as important to plant growth as water and light. *Microbe Science for Gardeners* highlights the essential role of microbes in plant biosystems and soil health, providing practical how-to gardening advice for enhancing plant microbiomes, and debunking common gardening myths.

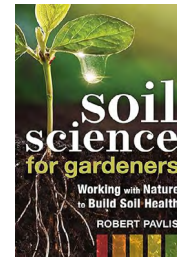
Going beyond soil biology to examine the crucial role of microorganisms in cultivating a productive garden, this accessible guide covers:

- The interrelationships in microbe populations and between microbes and plants;
- Understanding microbes such as bacteria, yeast, mycorrhizal fungi, and protozoa, both in the rhizosphere and above ground;
- How common practices such as tilling, crop rotation, and mulching affect the microbe community;
- How the savvy gardener can encourage beneficial microorganisms while discouraging those that cause disease or other undesirable effects;
- An objective analysis of popularized practices such as controlling fungal-to- bacterial ratios and applying biostimulants, compost tea, or plant probiotics;
- Prevention and cures for dozens of bacterial, viral, and fungal plant diseases.

Whether you're a home gardener, market

gardener, or micro-farmer, *Microbe Science for Gardeners* will help you leverage the incredible power of the mighty microbe to grow healthy, thriving plants.

**TD631.4/Pa950**



Pavlis, R. (2023). *Soil Science for Gardeners : Working with Nature to Build Soil Health*. New Society Publishers. ISBN 9780865719309

Healthy soil means thriving plants. Yet untangling the soil food web and optimizing soil health is beyond most gardeners, many of whom lack an in-depth knowledge of the soil ecosystem.

*Soil Science for Gardeners* is an accessible, science-based guide to understanding soil fertility and, in particular, the rhizosphere – the thin layer of liquid and soil surrounding plant roots, so vital to plant health.

Robert Pavlis, a gardener for over four decades, debunks common soil myths, explores the rhizosphere, and provides a personalized soil fertility improvement program in this three-part popular science guidebook.

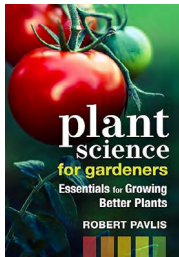
Coverage includes:

- Soil biology and chemistry and how plants and soil interact;
- Common soil health problems, including analyzing soil's fertility and plant nutrients;
- The creation of a personalized plan for improving your soil fertility, including setting priorities and goals in a cost-effective, realistic time frame;
- Creating the optimal conditions for nature to do the heavy lifting of building soil fertility.

Written for the home gardener, market gardener, and micro-farmer, *Soil Science for*

*Gardeners* is packed with information to help you grow thriving plants.

**TD631.4/Pa950**



Pavlis, R. (2022). *Plant Science for Gardeners : Essentials for Growing Better Plants*. New Society Publishers. ISBN 9780865719736

Most gardeners learn by accumulating rules – water once a week, never dry out snow-drop bulbs, prune lilacs after flowering, plant garlic in October – the list is endless. These rules can take years to learn and yet leave you floundering when the unexpected strikes and plants look unhealthy, produce poorly, or die. *Plant Science for Gardeners* offers a better way.

By understanding the basic biology of how plants grow, you can become a *thinking* gardener with the confidence to problem solve for optimized plant health and productivity. Learn the science and ditch the rules!

Coverage includes:

- The biology of roots, stems, leaves, and flowers;
- Understanding how plants function as whole organisms;
- The role of nutrients and inputs;
- Vegetables, flowers, grasses, and trees and shrubs;
- Propagation and genetics;
- Sidebars that explode common gardening myths;
- Tips for evaluating plant problems and finding solutions.

Whether you're a home gardener, micro-farmer, market gardener, or homesteader, this entertaining and accessible guide shortens

the learning curve and gives you the knowledge to succeed no matter where you live.

**TD634/Pa950**



Pavlis, R. (2023). *Compost Science for Gardeners : Simple Methods for Nutrient Rich Soil*. New Society Publishers. ISBN 9780865719767

With breathtaking clarity, *Compost Science for Gardeners* demystifies composting practices and helps readers determine the best technique for their unique situation. Using plain language and easy-to-follow instructions, it distills and blends the latest scientific research with the author's decades of experience, debunking a host of common gardening myths along the way.

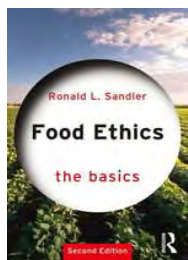
Learn about:

- The role of composting in the ecological cycle;
- Compostable materials to incorporate and those to avoid;
- Browns and greens vs the carbon-to-nitrogen ratio;
- The full range of composting methods, including cold and hot composting, composting in piles, bins, and tumblers, and pit and trench composting;
- Keyhole gardening, food digesters, vermicomposting, bokashi, eco-enzyme fermentation, and more;
- Merits and environment impacts of each composting technique;
- Using finished compost to improve soil health.

Anyone can compost. Whether you are a balcony or backyard gardener, market gardener, small-scale farmer, or homesteader, or even if

you are simply looking for a way to keep organic matter out of the landfill, this book will show you how to do it simply, safely, and sensibly.

**TD631.8/Pa950**



Sandler, R.L. (2024). *Food Ethics : The Basics* (2nd ed.). Routledge. ISBN 9781032258171

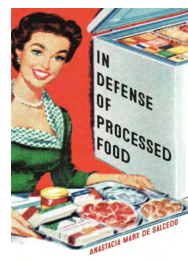
*Food Ethics: The Basics* is a concise yet comprehensive introduction to the ethical dimensions of the production and consumption of food. It offers an impartial exploration of the most prominent ethical questions relating to food and agriculture, including:

- Should we eat animals?
- Are locally produced foods ethically superior to globally sourced foods?
- Do people in affluent nations have a responsibility to help reduce global hunger?
- Should we embrace bioengineered foods?
- What should be the role of government in promoting food safety and public health?

This second edition has been revised and updated throughout, not only to take in the latest empirical and policy information, but also to address the impact of major issues such as the COVID-19 pandemic, Russia's invasion of Ukraine, AI and machine learning, and the rapid growth of the "gig economy."

Using extensive data and real-world examples, as well as providing suggestions for further reading, *Food Ethics: The Basics* is an ideal introduction for anyone interested in the ethics of food.

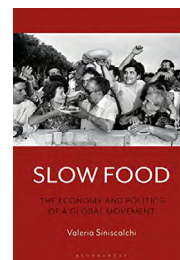
**TD664/Sa530**



Marx de Salcedo, A. (2023). *In Defense of Processed Food*. Reaktion Books. ISBN 9781789147674

Taking in turn a scientific, feminist, economic, and public-health perspective, this book gleefully demolishes much of the received wisdom surrounding processed food. Anastacia Marx de Salcedo argues that most of these foods are fairly healthy, and their consumption is an undisputed boon to women's equality, since women still bear disproportionate responsibility for home and children. Alternate food systems are doomed to be small-scale and unproductive, and can even harm economies as a whole. Can we blame processed food for the worldwide increase in obesity when the role of sedentary lifestyles has not been fully investigated? The author concludes by embracing packaged and preserved edibles in her larder, and encourages the reader to do the same.

**TD664/De001**



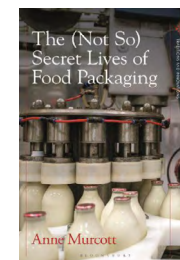
Siniscalchi, V. (2023). *Slow Food : The Economy and Politics of a Global Movement*. Bloomsbury Academic. ISBN 9781474282444

Written by one of the leading experts on food activism, this book is an independent, full-length study of the Slow Food movement. Slow Food is an international organization that links the love of food with community, political, and environmental support. Based on long-term ethnographic fieldwork inside Slow Food's international headquarters in Italy, Valeria Siniscalchi reveals what really goes on behind the scenes of this enigmatic organization. Observing daily meetings, decision-making processes, and major events, she explores the contradictions, complexities, and ambiguities of the movement – as well as the passionate commitment of its employees, members, and leaders.

Through talking to insiders and people who have "broken" with Slow Food, Siniscalchi makes a major contribution to our understanding of one of the most high profile and controversial food movements in the world – and to our knowledge of activist organizations more broadly.

This is an essential read for students and scholars of food studies, anthropology, geography, and sociology.

**TD641/Si736**



Murcott, A. (2024). *The (Not So) Secret Lives of Food Packaging*. Bloomsbury Academic. ISBN 9781350022102

Tracing developments from the classical period to the early industrial revolution and beyond, Anne Murcott provides us with an accessible and entertaining social history of food packaging.

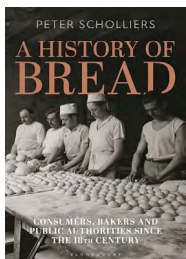
From tin cans, glass jars and bottles, plastic trays and stretch-wrap, Murcott shows the importance of food packaging for global food systems. The book examines shifts from domestic to commercial production, the emergence of associated technologies, changes in retailing, implications for policy and practice, along with current concerns about overpackaging.

Taking a wide historical and geographical angle, Murcott draws on sources such as trade magazines, manufacturers' archives, company histories, packaging textbooks and interviews with key industry 'insiders'.

Written by a leading figure in the field, this book will benefit students of social studies of food production and consumption, of cultural studies, as well as researchers and those interested in the history of food.

**TD664/Mu493**





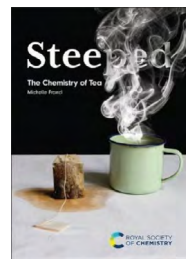
Scholliers, P. (2024). *A History of Bread: Consumers, Bakers and Public Authorities since the 18th Century*. Bloomsbury Academic. ISBN 9781350361768

For a long time, everything revolved around bread. Providing more than half of people's daily calories, bread was the life-source of Europe for centuries. In the middle of the 19th century, a third of household expenditure was spent on bread. Why, then, does it only account for 0.8% of expenditure and just 12% of daily calories today?

In this book, Peter Scholliers delves into the history of bread to map out its defining moments and people. From the price revolution of the 1890s that led to affordable and pure white bread, to the taste revolution of the 1990s that ushered in healthy brown bread, he studies consumers, bakers and governments to explain how and why this food that once powered an entire continent has fallen by the wayside, and what this means for the modern age.

From prices and consumption to legislation and technology, Scholliers shows how the history of bread has been shaped by subtle cultural shifts as well as top-down decisions from ruling bodies. From the small home baker to booming factories, he follows changes in agriculture, transport, production and policy since the 19th century to explain why bread, once the centre of everything, is not so today.

**TD664.6/5c584**

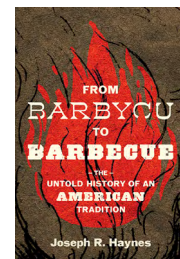


Franci, M. (2024). *Steeped: The Chemistry of Tea*. Royal Society of Chemistry. ISBN 9781839165917

Tea is the world's most popular beverage. Dive into a cup of tea with a chemist and discover the rich molecular brew that can be extracted from the leaves of the *Camellia sinensis* plant. Tea contains over a hundred different chemical compounds which contribute to its colour, taste and scent – and its stimulating effects. The best-known is caffeine, but how does caffeine end up in tea and how can you get it out?

Beginning with the leaves, *Steeped* explores the chemistry behind different styles of tea, from green teas to pu-erh. It tackles the age-old question of when, or even whether, to add milk. And it puts the chemistry to use with advice on how to brew a better cup.

**TD663.9/Fr164**



Haynes, J.R. (2023). *From Barbycu to Barbecue: The Untold History of an American Tradition*. University of South Carolina Press. ISBN 9781643363929

An award-winning barbecue cook boldly asserts that southern barbecuing is a unique American tradition that was not imported. The origin story of barbecue is a popular topic with a ravenous audience, but commonly held understandings of barbecue are often plagued by half-truths and misconceptions. *From Barbycu to Barbecue* offers a fresh new look at the story of southern barbecuing. Award winning barbecue cook Joseph R. Haynes sets out to correct one of the most common barbecue myths, the 'Caribbean Origins Theory,' which holds that the original southern barbecuing technique was imported from the Caribbean to what is today the American South. Rather, Haynes argues, the southern whole carcass barbecuing technique that came to define the American tradition developed via direct and indirect collaboration between Native Americans, Europeans, and free and enslaved people of African descent during the seventeenth century. Haynes's barbycu-to-barbecue history analyzes historical sources throughout the Americas that show that the southern barbecuing technique is as unique to the United States as jerked hog is to Jamaica and barbacoa is to Mexico. A recipe in each chapter provides a contemporary interpretation of a historical technique.

**EBSCOhost Ebook Academic Collection**



Cohen, B. (2022). *The Complete Guide to Seed & Nut Oils: Growing, Foraging, and Pressing*. New Society Publishers. ISBN 9780865719637

*The Complete Guide to Seed & Nut Oils* is a comprehensive, beautifully illustrated and photographed, full-color guide to growing, foraging, and pressing nut and seed crops to produce high-quality oils for culinary and other uses.

Coverage includes:

- A brief history of seed oil extraction;
- Culinary and health benefits of home-pressed oils versus factory produced oils;
- Presses and other equipment options for ease, cost, and convenience;
- How-to for growing, harvesting, processing, and pressing nuts and seeds;
- Profiles of over 40 nuts and seeds to grow, forage, or source including hempseed, flax, peanuts, sunflowers, walnuts, okra, and more;
- Oil processing, storage, and culinary and other uses;
- Scaling up for community or small-scale commercial production.

Whether you want to produce oils for cooking, balms and salves, self-sufficiency and resiliency, or for small-scale commercial or community production, this is a one-stop shop to get you started.

**TD641.1/Co132**



Alford, H.P. (2024). *Who's Who in Fashion* (7th ed.). Fairchild Books. ISBN 9781501373503

The 7th Edition of *Who's Who in Fashion* captures the energy, drama, excitement, and diversity of the luminaries working in the world of fashion.

This lushly illustrated book features profiles of fashion legends as well as newcomers who make up the rich tapestry of the fashion industry, spanning designers, photographers, costume designers, writers/editors, illustrators, companies, accessory designers, makeup/cosmetic specialists, and fashion conglomerates.

This new edition includes over 400 profiles, 90 of which are new, and more than 700 images, making this a must-have reference for fashion students, historians, costume curators, and fashion enthusiasts alike.

**TD687(092)/Al374**



D'Agati, J., & Schiff, H. (2024). *From Sleepwear to Sportswear: How Beach Pajamas Reshaped Women's Fashion*. Bloomsbury Academic. ISBN 9781350231924

How did women begin wearing pants? Prior to the 1920s it was a rarity to see women in pants in the Western world, but as the silk pajama trouser suit moved from the boudoir to the beach in the early 1920s it cemented the image of the trousered woman.

Worn by Jean Harlow and Marlene Dietrich, painted by Raoul Dufy, and immortalized in F. Scott Fitzgerald's *Tender is the Night*, between the two world wars pajamas came to symbolise much more than sleepwear. This book explores how the pajama phenomenon was not only critical to the careers of designers such as Chanel, Patou, Poiret, and Schiaparelli, but how the versatile garment was also bound to the independence of women and influenced culture more broadly.

Through meticulous research and never-before-seen images, the authors position pajama fashion in the context of the Golden Age of Travel, the rise of Hollywood, and the changing political climate of the early 20th century, to reveal how the rising trend in sleepwear influenced the American Look, modern sportswear, and the image of the trousered woman.

**TD687'19"/Da110**



Semler, L., Hill, J., & Bonner, I.M. (2024). *A History of Maternity Wear: Design, Patterns, and Construction*. Routledge. ISBN 9781032440842

*A History of Maternity Wear: Design, Patterns, and Construction* explores pregnancy clothing worn throughout the decades, providing historical information, images, and patterns.

Filled with photos showing extant attire, with intricate details and sample patterns that can be recreated to scale, this book examines how maternity clothes were constructed, provides historical context, and aids readers in designing their own maternity garments. Each chapter includes examples of commonly worn maternity styles from a number of regions of the English-speaking world, with information from the United States, Britain, Australia, and Canada. The book concludes with a chapter on historically accurate underpinnings from the 17th century to the present day.

*A History of Maternity Wear: Design, Patterns, and Construction* is written for costume professionals looking to research historically accurate characters and costumes for production, as well as fashion historians and costume enthusiasts.

**TD687/Se481**



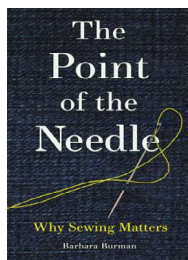
Annett-Hitchcock, K. (2024). *The Intersection of Fashion and Disability: A Historical Analysis*. Bloomsbury Visual Arts. ISBN 9781350143111

The history of the fashion industry has been well written as it relates to people who conform to certain physical norms and cultural stereotypes, whereas the inequality in access to the world of fashion has been largely ignored. Despite this lack of coverage, much work has taken place over the centuries to enable people who live with disability to also participate in fashion. This book tells that story via perspectives of notable historical figures, events and movements, and continues the discourse with a look at some of the contemporary developments in clothing and fashion.

*The Intersection of Fashion and Disability* takes the long view, from early attempts to conceal "unsightly" bodies of royalty and nobility via creative innovation through growing contemporary awareness of inclusive fashion and how future work can be driven by technology and cultural acceptance.

**TD687(09)/An608**

**The Berg Fashion Library**



Burman, B. (2023). *The Point of the Needle : Why Sewing Matters.* Reaktion Books. ISBN 9781789147193

Tens of millions of people sew for necessity or pleasure every day, yet the craft is surprisingly under-appreciated. *The Point of the Needle* redresses the balance, arguing for sewing's place in our lives. It celebrates not only sewing's recent resurgence but sewers' creativity, well-being and community. Barbara Burman chronicles new voices of people who sew today, by hand or machine, to explore what they sew, what motivates them, what they value and why they mend things, revealing insights into sewing's more intimate stories. In our age of superfast fashion, with its environmental and social injustices, this eloquent book makes a passionate case for identity, diversity, resilience and memory – what people create for themselves as they stitch and make.

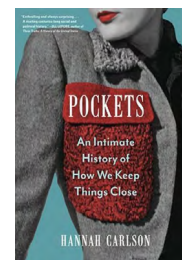
TD687.023/Bu560



Niinimäki, K. (Ed.). (2024). *Recycling and Lifetime Management in the Textile and Fashion Sector.* CRC Press. ISBN 9780367490836

This book provides a wide landscape for recycling and product lifetime management in the textile and fashion sector. Through this approach, the book attempts to deepen the understanding of the sustainability transformation, which is currently desperately needed but also already happening in the design, manufacture, consumption and recycling of textiles and garments. The textile and garment recycling and redefining product lifetimes of this transformation are at the core of the new understanding of sustainability. An accessible and compelling read, *Recycling and Lifetime Management in the Textile and Fashion Sector* will appeal to students, scholars, professionals, policy makers and industry practitioners.

TD687/Re087



Carlson, H. (2023). *Pockets : An Intimate History of How We Keep Things Close.* Algonquin Books of Chapel Hill. ISBN 9781643751542

It's a subject that stirs up plenty of passion: why do men's clothes have so many pockets and women's so few? And why are the pockets on women's clothes often too small to fit phones, if they even open at all? In her captivating book, Hannah Carlson, a lecturer in dress history at the Rhode Island School of Design, reveals the issues of gender politics, security, sexuality, power, and privilege tucked inside our pockets.

Throughout the medieval era in Europe, the purse was an almost universal dress feature. But when tailors stitched the first pockets into men's trousers five hundred years ago, it ignited controversy and introduced a range of social issues that we continue to wrestle with today, from concealed pistols to gender inequality. See: #GiveMePocketsOrGiveMeDeath.

Filled with incredible images, this micro-history of the humble pocket uncovers what pockets tell us about ourselves: how is it that putting your hands in your pockets can be seen as a sign of laziness, arrogance, confidence, or perversion? Walt Whitman's author photograph, hand in pocket, for *Leaves of Grass* seemed like an affront to middle-class respectability. When W.E.B. Du Bois posed for a portrait, his pocketed hands signaled defiant coolness.

And what else might be hiding in the history of our pockets? (There's a reason that the

contents of Abraham Lincoln's pockets are the most popular exhibit at the Library of Congress). Thinking about the future, Carlson asks whether we will still want pockets when our clothes contain "smart" textiles that incorporate our IDs and credit cards.

*Pockets* is for the legions of people obsessed with pockets and their absence, and for anyone interested in how our clothes influence the way we navigate the world.

TD687(09)/Ca615