

Jaunieguvumu apskats: Tehnoloģiju & dabaszinātņu izdevumi svešvalodās

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Tālr.: 67806132

E-pasts: tehnologijas@lnb.lv

Redaktore & maketētāja: Zane Bondare

(zane.bondare@lnb.lv)

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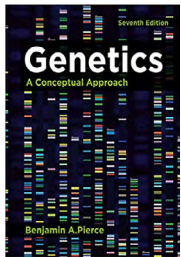
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jurzin@lnb.lv

Humanitāro un sociālo zinātņu lasītava (2. stāvs):
soczin@lnb.lv

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tehnologijas@lnb.lv

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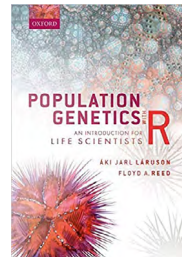


Pierce, B.A. (2020). *Genetics : A Conceptual Approach* (7th ed.). Macmillan International Higher Education. ISBN 9781319308315

With *Genetics: A Conceptual Approach*, Ben Pierce brings a master teacher's experiences to the introductory genetics textbook, clarifying this complex subject by focusing on the big picture of genetics concepts and how those concepts connect to one another.

The new 7th edition continues this mission by expanding upon the powerful pedagogy and tools that have made this title so successful. New question types, more learning guidelines for students, and an updated art program round out a powerful text.

TD575/Pi255



Lárússon, Á.J., & Reed, F.A. (2021). *Population Genetics with R: An Introduction for Life Scientists*. Oxford University Press. ISBN 9780198829546

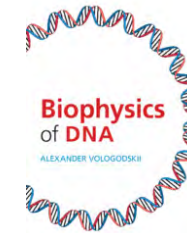
Population genetics is an inherently quantitative discipline, yet often focuses upon abstract concepts which can be difficult to conceptualize and appropriately visualize at first glance. This book focuses on applying the hugely popular R software specifically to the field, offering an accessible, step-by-step guide to tackling the challenges of achieving effective data interpretation and summary. The authors adopt an engaging "learning by doing" approach that will enable readers to develop an intuitive understanding of key population genetics concepts through the use of R.

Beginning with the groundwork of installing and using R (including CRAN and the RStudio IDE), the book works through the use of basic commands for data manipulation. An introduction to basic terminology in population genetics follows, clearly explaining how these fundamental assumptions can provide insights and form basic inferences for real populations. The focus then moves onto statistical tests including writing and running algorithms as functions. Subsequent chapters examine genetic variation, adaptation, and natural selection as well as different approaches to population differences. Importantly, the accompanying set of practical exercises demonstrate that implementing all of these concepts via programming

can actually help greatly in understanding them, even if they may at first seem insurmountably complex. Finally, this accessible textbook points the way forwards to other key concepts that are important to understanding modern day population genetics research (in particular coalescent theory) and offers the reader useful launching points for further learning.

Population Genetics with R is aimed at students ranging from undergraduate to postgraduate level in the fields of population genetics, ecology, evolutionary biology, conservation genetics, computational biology, and biostatistics.

TD575/La687

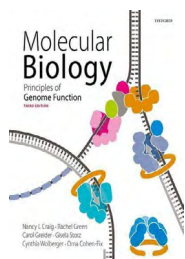


Vologodskii, A. (2021). *Biophysics of DNA*. Cambridge University Press. ISBN 9781009045810

Surveying the last sixty years of research, this book describes the physical properties of DNA in the context of its biological functioning. It is designed to enable both students and researchers of molecular biology, biochemistry and physics to better understand the biophysics of DNA, addressing key questions and facilitating further research.

The chapters integrate theoretical and experimental approaches, emphasising throughout the importance of a quantitative knowledge of physical properties in building and analysing models of DNA functioning. For example, the book shows how the relationship between DNA mechanical properties and the sequence specificity of DNA-protein binding can be analyzed quantitatively by using our current knowledge of the physical and structural properties of DNA. Theoretical models and experimental methods in the field are critically considered to enable the reader to engage effectively with the current scientific literature on the physical properties of DNA.

TD575/Vo473



Craig, N.L., Green, R.R., Storz, G.G., Greider, C.C., Wolberger, C., & Cohen-Fix, O. (2021). *Molecular Biology: Principles of Genome Function* (3rd ed.). Oxford University Press. ISBN 9780198788652

Molecular Biology: Principles of Genome Function offers a fresh, distinctive approach to the teaching of molecular biology. It is an approach that reflects the challenge of teaching a subject that is in many ways unrecognizable from the molecular biology of the 20th century – a discipline in which our understanding has advanced immeasurably, but about which many questions remain to be answered.

It is written with several guiding themes in mind:

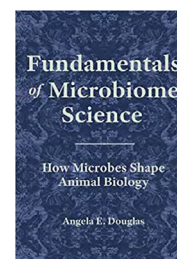
- A focus on key principles provides a robust conceptual framework on which students can build a solid understanding of the discipline;
- An emphasis on the commonalities that exist between the three kingdoms of life, and the discussion of differences between the three kingdoms where such differences offer instructive insights into molecular processes and components, gives students an accurate depiction of our current understanding of the conserved nature of molecular biology, and the differences that underpin biological diversity;
- An integrated approach demonstrates how certain molecular phenomena have diverse impacts on genome function by presenting them as themes that recur throughout the book, rather than as artificially separated topics.

At heart, molecular biology is an experimental science, and a central element to the understanding of molecular biology is an appreciation of the approaches taken to yield the information from which concepts and principles are deduced. Yet there is also the challenge of introducing the experimental evidence in a way that students can readily comprehend.

Molecular Biology responds to this challenge with *Experimental Approach* panels, which branch off from the text in a clearly-signposted way. These panels describe pieces of research that have been undertaken, and which have been particularly valuable in elucidating different aspects of molecular biology. Each panel is carefully cross-referenced to the discussion of key molecular biology tools and techniques, which are presented in a dedicated chapter at the end of the book.

Beyond this, *Molecular Biology* further enriches the learning experience with full-colour, custom-drawn artwork; end-of-chapter questions and summaries; relevant suggested further readings grouped by topic; and an extensive glossary of key terms.

TD577/Cr090



Douglas, A.E. (2021). *Fundamentals of Microbiome Science: How Microbes Shape Animal Biology*. Princeton University Press. ISBN 9780691217710

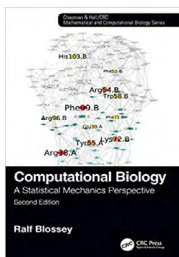
This book provides an accessible and authoritative guide to the fundamental principles of microbiome science, an exciting and fast-emerging new discipline that is reshaping many aspects of the life sciences. Resident microbes in healthy animals – including humans – can dictate many traits of the animal host. This animal microbiome is a second immune system conferring protection against pathogens; it can structure host metabolism in animals as diverse as reef corals and hibernating mammals; and it may influence animal behavior, from social recognition to emotional states. These microbial partners can also drive ecologically important traits, from thermal tolerance to diet, and have contributed to animal diversification over long evolutionary timescales.

Drawing on concepts and data across a broad range of disciplines and systems, Angela Douglas provides a conceptual framework for understanding these animal-microbe interactions while shedding critical light on the scientific challenges that lie ahead. Douglas explains why microbiome science demands creative and interdisciplinary thinking – the capacity to combine microbiology with animal physiology, ecological theory with immunology, and evolutionary perspectives with metabolic science.

An essential introduction to a cutting-edge field that is revolutionizing the life sciences, this

book explains why microbiome science presents a more complete picture of the biology of humans and other animals, and how it can deliver novel therapies for many medical conditions and new strategies for pest control.

TD579/Do886



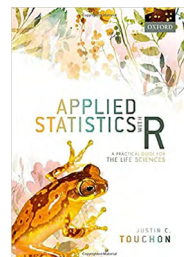
Blossey, R. (2021). *Computational Biology : A Statistical Mechanics Perspective* (2nd ed.). CRC Press. ISBN 9780367779740

Computational biology has developed rapidly during the last two decades following the genomic revolution which culminated in the sequencing of the human genome. More than ever it has developed into a field which embraces computational methods from different branches of the exact sciences: pure and applied mathematics, computer science, theoretical physics. This Second Edition provides a solid introduction to the techniques of statistical mechanics for graduate students and researchers in computational biology and biophysics.

- Material has been reorganized to clarify equilibrium and nonequilibrium aspects of biomolecular systems;
- Content has been expanded, in particular in the treatment of the electrostatic interactions of biomolecules and the application of non-equilibrium statistical mechanics to biomolecules;
- New network-based approaches for the study of proteins are presented.

All treated topics are put firmly in the context of the current research literature, allowing the reader to easily follow an individual path into a specific research field. Exercises and tasks accompany the presentations of the topics with the intention of enabling the readers to test their comprehension of the developed basic concepts.

TD57/BI820



Touchon, J.C. (2021). *Applied Statistics with R : A Practical Guide for the Life Sciences* (1st ed.). Oxford University Press. ISBN 9780198869337

The statistical analyses that students of the life-sciences are being expected to perform are becoming increasingly advanced. Whether at the undergraduate, graduate, or post-graduate level, this book provides the tools needed to properly analyze your data in an efficient, accessible, plainspoken, frank, and occasionally humorous manner, ensuring that readers come away with the knowledge of which analyses they should use and when they should use them.

The book uses the statistical language R, which is the choice of ecologists worldwide and is rapidly becoming the “go-to” stats program throughout the life-sciences. Furthermore, by using a single, real-world dataset throughout the book, readers are encouraged to become deeply familiar with an imperfect but realistic set of data. Indeed, early chapters are specifically designed to teach basic data manipulation skills and build good habits in preparation for learning more advanced analyses. This approach also demonstrates the importance of viewing data through different lenses, facilitating an easy and natural progression from linear and generalized linear models through to mixed effects versions of those same analyses. Readers will also learn advanced plotting and data-wrangling techniques, and gain an introduction to writing their own functions.

Applied Statistics with R is suitable for senior undergraduate and graduate students, professional researchers, and practitioners throughout the life-sciences, whether in the fields of ecology, evolution, environmental studies, or computational biology.

TD57.087.1/To843

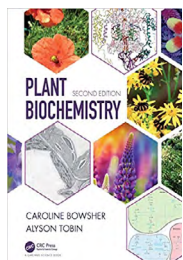


Ozin, G.A., & Ghossoub, M.F. (2020). *The Story of CO2 : Big Ideas for a Small Molecule*. Aevo UTP. ISBN 9781487506360

The climate crisis requires that we drastically reduce carbon dioxide emissions across all sectors of society. *The Story of CO2* contributes to this vital conversation by highlighting the cutting-edge science and emerging technologies – a number of which are already commercially available – that can transform carbon dioxide into a myriad of products such as feedstock chemicals, polymers, pharmaceuticals, and fuels. This approach allows us to reconsider CO2 as a resource, and to add “carbon capture and use” to our other tools in the fight against catastrophic climate change.

The Story of CO2 explores all aspects of carbon dioxide, from the atomic to the universal perspective, and takes the reader on an epic journey into our physical world, starting from the moment of the Big Bang, all the way to the present world in which atmospheric CO2 concentrations continue to grow. This story seeks to inspire readers with the latest carbon utilization technologies and explain how they fit within the broader context of carbon mitigation strategies in the shift towards a sustainable energy economy.

TD546/Oz370



Bowsher, C., & Tobin, A. (2021). *Plant Biochemistry* (2nd ed.). CRC Press. ISBN 9780815344995

Plant Biochemistry focuses on the molecular and cellular aspects of each major metabolic pathway and sets these within the context of the whole plant. Using examples from biomedical, environmental, industrial and agricultural applications, it shows how a fundamental understanding of plant biochemistry can be used to address real-world issues. It illustrates how plants impact human activity and success, in terms of their importance as a food supply and as raw materials for industrial and pharmaceutical products, and considers how humans can benefit from exploiting plant biochemical pathways.

All chapters in this second edition have been substantially revised to incorporate the latest research developments, and case studies include updates on progress in developing novel plants and plant products. The artwork, now in full color, superbly illustrates the key concepts and mechanisms presented throughout.

Key features:

- Presents each topic from the cellular level to the ecological and environmental levels, placing it in the context of the whole plant;
- Biochemical pathways are represented as route maps, showing how one reaction interacts with another both within and across pathways;
- Includes comprehensive reading lists with descriptive notes to enable students to conduct

their own research into topics they wish to explore further;

- The wide-ranging approach of this book emphasizes the importance of teaching and learning plant biochemical pathways within the framework of what the pathway does and why it is needed;

- Illustrates the fundamental significance of plants, in terms of their importance as a food supply, as raw materials and as sources of novel products.

Plant Biochemistry is invaluable to undergraduate students who wish to gain insight into the relevance of plant metabolism in relation to current research questions and world challenges. It should also prove to be a suitable reference text for graduates and researchers who are new to the topic or who wish to broaden their understanding of the range of biochemical pathways in plants.

TD581.1/.4/B0954

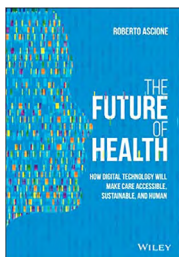


Ikin, E. (2020). *Rare Plants : The Story of 40 of the World's Most Unusual and Endangered Plants*. Welbeck. ISBN 9780233006239

Rare Plants unearths the extraordinary plant-life there is to be discovered in the gardens, jungles, plains and highlands of our planet. Vulnerable in a world in danger of losing its biodiversity, organizations like the Royal Botanic Gardens, Kew, are needed by these fragile species now more than ever before.

Through an evocative blend of artwork sourced from the Kew archives and authoritative and illuminating text, *Rare Plants* highlights 40 unusual species, shedding new light on their fascinating singularities and offering a vital glimpse of these unique specimens.

TD58/lk400



Ascione, R. (2022). *The Future of Health : How Digital Technology Will Make Care Accessible, Sustainable, and Human.* Wiley. ISBN 9781119797258

The Future of Health is an insightful and comprehensive overview of the past, present, and future of digital health. Accomplished health innovation leader Roberto Ascione delivers a practical exploration of how the latest digital technologies are transforming the practice of medicine and redefining health itself by making it more accessible, sustainable, and human.

The book includes practical, real-world examples from the United States, Asia, and Europe of technology applications, companies, and start-up that have changed – or will change – our relationship with our health and the healthcare system. Readers will also find:

- How our health is becoming increasingly consumer and connected while technology is empowering patients in completely new ways and deeply transforming the doctor-patient relationship;
- Discussions of how the training of medical professionals, particularly doctors, has changed – or needs to change – to meet the new digital reality;
- Examinations of how new technologies will allow doctors to dodge many of the administrative and regulatory burdens they currently face each day;
- Treatments of the ability of new technologies to unlock new, holistic ways of practicing

medicine, with a focus on latest developments such as Digital Therapeutics and Virtual Reality;

- Reflections on how digital health is fostering a shift “from cure to care” and will unleash a human-sized future for a more accessible, ubiquitous, and sustainable healthcare.

The Future of Health is required reading for medical practitioners and the managers of pharmaceutical companies. It will also earn a place in the libraries of medical device companies and healthcare entrepreneurs seeking an incisive treatment of the impact of digital technology on all aspects of healthcare. Also, the general public, interested in understanding how to take better control of their own health through digital technologies, will find this book insightful and easy to comprehend.

TD616-7/As220



Gruenwald, L., Jain, S., & Groppe, S. (Eds.). (2021). *Leveraging Artificial Intelligence in Global Epidemics.* Elsevier. ISBN 9780323897778

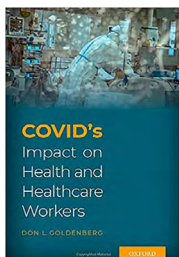
Leveraging Artificial Intelligence in Global Epidemics provides readers with a detailed technical description of the role Artificial Intelligence plays in various stages of a disease outbreak, using COVID-19 as a case study. In the fight against epidemics, medical staff are on the front line; but behind the lines the battle is fought by researchers, and data scientists. Artificial Intelligence has been helping researchers with computer modeling and simulation for predictions about disease progression, the overall economic situation, tax incomes and population development. In the same manner, AI can prepare researchers for any emergency situation by backing the medical science. Artificial Intelligence plays a key and cutting-edge role in the preparedness for and dealing with the outbreak of global epidemics. It can help researchers analyze global data about known viruses to predict the patterns of the next pandemic and the impacts it will have. Not only prediction, AI plays an increasingly important role in assessing readiness, early detection, identification of patients, generating recommendations, situation awareness and more. It is up to the right input and the innovative ways by humans to leverage what AI can do. As COVID-19 has grabbed the world and its economy today, an analysis of the COVID-19 outbreak and the global responses and

analytics will pay a long way in preparing humanity for such future situations.

Features:

- Provides readers with understanding of how Artificial Intelligence can be applied to the prediction, forecasting, detection, and testing of global epidemics, using COVID-19 and other recent epidemics such as Ebola, Corona viruses, Zika, influenza, Dengue, Chikungaya, and malaria as case studies;
- Includes background material regarding readiness for coping with epidemics, including Machine Learning models for prediction of epidemic outbreaks based on existing data;
- Includes technical coverage of key topics such as generating recommendations to combat outbreaks, genome sequencing, AI-assisted testing, AI-assisted contact tracing, situation awareness and combating disinformation, and the role of Artificial Intelligence and Machine Learning in drug discovery, vaccine development, and drug re-purposing.

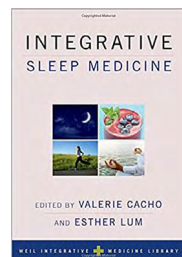
TD616.9/Le900



Goldenberg, D.L. (2021). *COVID's Impact on Health and Healthcare Workers*. Oxford University Press. ISBN 9780197575390

COVID's Impact on Health and Healthcare Workers highlights the most critical issues in COVID-19's impact on healthcare providers and on hospitals. This includes factors associated with disease severity, hospitalizations and death and the effect on other medical conditions. The book explores changes brought about during the pandemic to primary and specialty care, including the rapid employment of telemedicine and the many innovations in care delivery. Special attention is given to the role of myths and misinformation and its resultant adverse blow to the nation's recovery. COVID's long-range effects, both on previously infected patients and also on the general population, are reviewed. A number of recommendations to best move forward, including with vaccine allocation and preventing further devastation, are outlined.

616.9/Go262



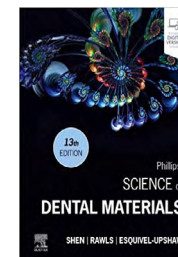
Cacho, V., & Lum, E. (Eds.). (2021). *Integrative Sleep Medicine*. Oxford University Press. ISBN 9780190885403

Sleep is one of the key underpinnings of human health yet sleep deprivation and impaired sleep are rampant in modern life. Sleep and wake are a true yin yang phenomenon, each affecting the other and together forming a harmonious whole. Healthy sleep is a whole-body process impacted by circadian rhythm, daily activities, and emotional well-being, among others. When properly aligned, these work in concert to produce restorative and refreshing sleep. When not in balance, however, sleep disorders result. Yet too often, the conventional medical approach to treatment of sleep disorders is compartmentalized, failing to recognize all of the complex interactions that are involved.

The first book in its field, *Integrative Sleep Medicine* offers a true comprehensive approach to sleep and sleep disorders by delineating the many factors that interplay into healthy sleep. Health care practitioners can learn how to better manage their patients with sleep disorders by integrating complementary and conventional approaches. Using an evidence-based approach throughout, this book describes the basics of normal sleep, then delves into the foundations of integrative sleep medicine, including the circadian rhythm, mind-body sleep connection, light, dreaming, the gastrointestinal system, and botanicals and supplements. Specific sleep

issues and disorders are then addressed from an integrative perspective, including insomnia, obstructive sleep apnea, sleep related movement disorders, and parasomnias.

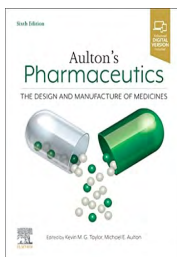
TD613.7/In720



Shen, C., Rawls, H.R., & Esquivel-Upshaw, J.F. (2022). *Phillips' Science of Dental Materials* (13th ed.). Elsevier. ISBN 9780323697552

Phillips' Science of Dental Materials, 13th Edition provides comprehensive, up-to-date information on the materials used in cosmetic and restorative procedures in dentistry. It introduces the physical and chemical properties that are related to selection and use of dental biomaterials, including their composition, mechanical properties, manipulative variables, and the performance of dental restorations and prostheses. This edition adds three new chapters and hundreds of new full-color photographs. Written by dental scientists Chiayi Shen and H. Ralph Rawls along with prosthodontist Josephine Esquivel-Upshaw, this leading text/reference helps dentists select the right materials for oral procedures and helps dental labs ensure high-quality restorations.

TD616.314/Sh340



Taylor, K.M.G., & Aulton, M.E. (Eds.). (2022). *Aulton's Pharmaceutics : The Design and Manufacture of Medicines* (6th ed.). Elsevier. ISBN 9780702081545

One of the world's best-known texts on pharmaceuticals, *Aulton's Pharmaceutics* offers a complete course in one book for students in all years of undergraduate pharmacy and pharmaceutical sciences degrees.

Thoroughly revised, updated and extended by experts in their fields and edited by Professors Kevin Taylor and Michael Aulton, this new edition includes the science of formulation, pharmaceutical manufacturing and drug delivery.

All aspects of pharmaceuticals are covered in a clear and readily accessible way and extensively illustrated throughout, providing an essential companion to the entire pharmaceutical curriculum from day one until the end of the course.

- Fully updated throughout, with the addition of new chapters, to reflect advances in formulation and drug delivery science, pharmaceutical manufacturing and medicines regulation;
- Designed and written for newcomers to the design and manufacture of dosage forms;
- Relevant pharmaceutical science covered throughout;
- Includes the science of formulation and drug delivery;
- Reflects current practices and future applications of formulation and drug delivery science to small drug molecules, biotechnology products

and nanomedicines;

- Key points boxes throughout;
- Over 400 online multiple choice questions.

TD615/Au526



Potenza, M.N., Faust, K.A., & Faust, D. (Eds.). (2020). *The Oxford Handbook of Digital Technologies and Mental Health*. Oxford University Press. ISBN 9780190218058

Digital technology use, whether on smartphones, tablets, laptops, or other devices, is prevalent across cultures. Certain types and patterns of digital technology use have been associated with mental health concerns, but these technologies also have the potential to improve mental health through the gathering of information, by targeting interventions, and through delivery of care to remote areas.

The Oxford Handbook of Digital Technologies and Mental Health provides a comprehensive and authoritative review of the relationships between mental health and digital technology use, including how such technologies may be harnessed to improve mental health. Understanding the positive and negative correlates of the use of digital technologies has significant personal and public health implications, and as such this volume explores in unparalleled depth the historical and cultural contexts in which technology use has evolved; conceptual issues surrounding digital technologies; potential positive and potential negative impacts of such use; treatment, assessment, and legal considerations around digital technologies and mental health; technology use in specific populations; the use of digital technologies to treat psychosocial disorders; and the treatment of problematic internet use and gaming. With chapters contributed by leading

scientists from around the world, this Handbook will be of interest to those in medical and university settings, students and clinicians, and policymakers.

TD613.8/0x250

Sports



Schmidt, S.L. (Ed.). (2020). *21st Century Sports : How Technologies Will Change Sports in the Digital Age*. Springer. ISBN 9783030508036

This book outlines the effects that technology-induced change will have on sport within the next five to ten years, and provides food for thought concerning what lies further ahead. Presented as a collection of essays, the authors are leading academics from renowned institutions such as Massachusetts Institute of Technology, Queensland University of Technology, and the University of Cambridge, and practitioners with extensive technological expertise. In their essays, the authors examine the impacts of emerging technologies like artificial intelligence, the Internet of Things, and robotics on sports and assess how they will change sport itself, consumer behavior, and existing business models. The book will help athletes, entrepreneurs, and innovators working in the sports industry to spot trendsetting technologies, gain deeper insights into how they will affect their activities, and identify the most effective responses to stay ahead of the competition both on and off the pitch.

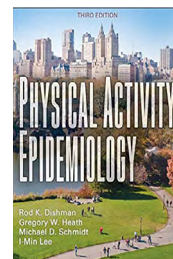
TD796/Tw327



Breslin, G., Kremer, J., Moran, A., Craig, C., & Shannon, S. (2022). *Understanding Sport Psychology*. SAGE Publications. ISBN 9781529744637

Sports Psychology is a popular area that has grown dramatically over the past few decades due to an increasing emphasis on the importance of psychology for athletic performance, engagement in exercise and in the business and industry of sport. This text is a concise, focussed overview of all the core concepts in sports psychology at both undergraduate and postgraduate level. Using key studies and evidence, this book explains and develops key topics, and acts as a springboard for further reading and debate. This is a stimulating and practical resource for sport and exercise students, sport coaches, and athletes alike, covering new developments within the field including: Social Identity Theory, Mental Health Awareness in Sport, Resilience and Mindfulness. With additional pedagogy including further reading, figures and diagrams to help visualise key theories, and case studies, *Understanding Sport Psychology* is essential reading for any student of sport psychology.

TD796:159.9/B:396



Dishman, R.K., Heath, G.W., Schmidt, M.D., & Lee, I-M. (2022). *Physical Activity Epidemiology (3th ed.)*. Human Kinetics. ISBN 9781492593010

Physical Activity Epidemiology, Third Edition, explores how physical activity can enhance quality of life. The text summarizes the available knowledge, examines the methods used to obtain these findings, considers the implications for public health. Readers will find comprehensive discussions of these topics:

- Part I introduces physical activity epidemiology and provides a background in research methods, measurement, and surveillance;
- Part II focuses on the evidence that physical activity protects against disease mortality and inhibits the development of coronary heart disease and stroke;
- Part III offers evidence that physical activity plays a role in the prevention of hypertension, dyslipidemia, and obesity;
- Part IV compiles the latest data on two chronic diseases that are increasing in prevalence worldwide: type 2 diabetes and osteoporosis;
- Part V describes the evidence that physical activity is associated with reduced risks of certain cancers;
- Part VI addresses mental health and the promotion of a safe, physically active lifestyle among all segments of the population.

This edition has been updated to reflect a wealth of new research and is in alignment with the 2018 Physical Activity Guidelines Advisory

Committee Scientific Report. It offers more detailed coverage of the measurement of sedentary behavior; the effects of physical activity on osteoporosis and bone health, cancers, and inflammatory diseases; and the potential of exercise to complement immunotherapy in cancer treatment.

TD796.035/Di785

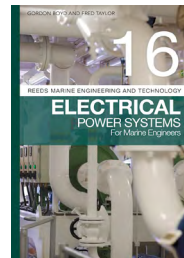


Tapaninen, U. (2020). *Maritime Transport : Shipping Logistics and Operations*. Kogan Page. ISBN 9781789662467

Maritime transport is the transport of people or goods by water. It is the backbone of world trade and globalization. Twenty-four hours a day and all year round, ships carry cargoes to all corners of the globe. *Maritime Transport* focuses on the operational side of this important industry, covering many topics such as sea traffic currents, passenger transport, short sea shipping and dangerous cargoes.

Parts one and two of *Maritime Transport* present the concepts, theory and background information, then part three presents more complex and deeper issues such as the maritime transportation of the future. It covers topics such as intelligent shipping, data exchange at sea and maritime security. In addition, the book includes fascinating case studies and examples, such as maritime transport in the Baltic sea, ship strategies in Norway and Greece and the benefits of slow steaming. At the end of each chapter there are questions that will help students to gain a deeper understanding of the many topics covered.

TD629.5/Ta570



Boyd, G., & Taylor, F. (2020). *Electrical Power Systems for Marine Engineers*. Reeds. ISBN 9781472968463

Within the marine and offshore industry, there is a clear and growing need for increased training and education on the use of electrical power systems. The number of electrical plant and appliances now in service has grown at an alarming rate in recent years, as has the amount of electrical power generated and utilised on board.

Large passenger ships now carry as many electrical officers as marine engineers, and electrical propulsion is now in common use by LNG carriers, small parcel tankers, oil tankers, ferries, offshore support, the navy, fleet auxiliary, cable layers and cruise ships. A number of shipping companies now award the Chief Electro Technical Officer the equivalent rank to the ship's master and Chief Engineer. These developments have resulted in the establishment of a Foundation Degree programme for Electro Technical Officers and the current development of full degree programmes. As such, a targeted textbook for students on the subject is required.

This book will be written in clear, accessible language, so as to be of use to all students and particularly those for whom English isn't their first language. Technical drawings and diagrams will be used throughout and each chapter will be accompanied by example examination questions.

TD629.5/Re153



Chatterjee, A. (2021). *Autonomous and Integrated Parking and Transportation Services*. CRC Press. ISBN 9781032085043

In this book, the author outlines a Robust Web Parking, Truck and Transportation Portal (RWPTTP) for integrating parking and transportation services – a revolutionary approach in contrast to incremental change for managing traffic congestion. Autonomous vehicle technology, artificial intelligence, internet of things (IOT), and other interconnected hardware and software tools will assist autonomous parking and transportation services and provide next-century infrastructure for consolidated transportation customer services.

The book highlights currently available autonomous parking and transportation technologies, and the development of an integrated and intelligent transportation service/system (IITS) platform, with specific use of technologies to reconfigure the transportation industry. The author also suggests many regulatory and policy changes to simplify data collection, traffic operation, introduction of a duplicate transportation system using light rail (LRs) and high speed rail (SPRs), and redistribution of parking spaces along such routes, using renewable energy.

TD625/Ch368

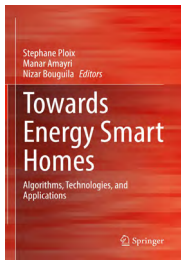


Norman, J., & Thomson, A. (2020). *Designing Timber Structures : An Introduction*. BM TRADA. ISBN 9781909594845

This book is aimed at engineering students who are designing for the first time, or for those who have begun their journey into design and now want to learn more about designing specifically with timber. It starts by introducing timber as a sustainable material; a key consideration in our current climate emergency. Students then move through timber design basics such as deflection, strength and buckling to enable the design of a timber floor and stud wall. Two chapters focus on core engineered timber products: glued laminated and cross-laminated timber. Finally, fire, acoustics, detailing and additional considerations around the use of existing timber buildings are introduced.

Designing timber structures: an introduction aims to provide students with a solid understanding of the key basic principles of designing with wood. Regular further reading references and links to online material and sources provide students with the opportunity to access the broad and complex spectrum of materials available for practising engineers.

TD694/No462

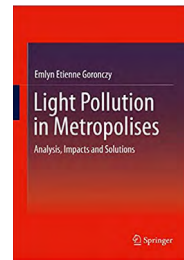


Ploix, S., Amayri, M., & Bouguila, N. (Eds.). (2021). *Towards Energy Smart Homes: Algorithms, Technologies, and Applications*. Springer. ISBN 9783030764760

This book exemplifies how smart buildings have a crucial role to play for the future of energy. The book investigates what already exists in regards to technologies, approaches and solutions both with a scientific and technological point of view. The authors cover solutions for mirroring and tracing human activities, optimal strategies to configure home settings, and generating explanations and persuasive dashboards to get occupants better committed in their home energy managements. Solutions are adapted from the fields of Internet of Things, physical modeling, optimization, machine learning and applied artificial intelligence. Practical applications are given throughout:

- Presents both theory and application on economic and social perspective of energy smart-homes;
- Covers topics from smart grids and urban energetics to smart meters and Internet of Things;
- Written by researchers from various communities including economy, building physics, control, artificial intelligence and informatics.

TD696/To950



Goronczy, E.E. (2021). *Light Pollution in Metropolises: Analysis, Impacts and Solutions*. Springer. ISBN 9783658297220

Light pollution (light smog, light pollution or light emissions) is a fundamental problem in metropolises with effects on flora, fauna and people. Accordingly, the first section of the book discusses the basics of light pollution and its effects on various organisms. The characteristics of light smog in the cities of Hanover, Warsaw, Boston, New York City and Toronto are then analysed and compared. But how can the problem be tackled? Existing measures for the prevention of light pollution are discussed and further novel approaches are shown by comparing the metropolises. The book is aimed primarily at practitioners in this field and helps to identify sources of emissions and identify suitable reduction measures.

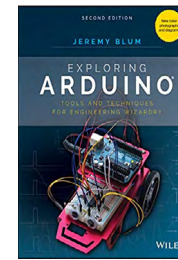
The Content:

- What is light pollution?
- Effects of artificial light after dark;
- International comparative analysis;
- Simulation of urban scenarios and spaces;
- Interdisciplinary solutions for reducing urban light pollution.

The Target Groups:

- City and regional planners, architects, civil engineers, urbanists, light planners, biologists;
- Lecturers and teachers in urban and spatial planning training courses.

TD628.9/Go677



Blum, J. (2020). *Exploring Arduino: Tools and Techniques for Engineering Wizardry* (2nd ed.). John Wiley & Sons Inc. ISBN 9781119405375

Exploring Arduino makes electrical engineering and embedded software accessible. Learn step by step everything you need to know about electrical engineering, programming, and human-computer interaction through a series of increasingly complex projects. Arduino guru Jeremy Blum walks you through each build, providing code snippets and schematics that will remain useful for future projects. Projects are accompanied by downloadable source code, tips and tricks, and video tutorials to help you master Arduino. You'll gain the skills you need to develop your own microcontroller projects!

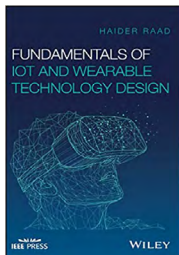
This new 2nd edition has been updated to cover the rapidly-expanding Arduino ecosystem, and includes new full-color graphics for easier reference. Servo motors and stepper motors are covered in richer detail, and you'll find more excerpts about technical details behind the topics covered in the book. Wireless connectivity and the Internet-of-Things are now more prominently featured in the advanced projects to reflect Arduino's growing capabilities. You'll learn how Arduino compares to its competition, and how to determine which board is right for your project. If you're ready to start creating, this book is your ultimate guide!

- Get up to date on the evolving Arduino hardware, software, and capabilities;

- Build projects that interface with other devices – wirelessly;
- Learn the basics of electrical engineering and programming;
- Access downloadable materials and source code for every project.

Whether you're a first-timer just starting out in electronics, or a pro looking to mock-up more complex builds, Arduino is a fantastic tool for building a variety of devices. This book offers a comprehensive tour of the hardware itself, plus in-depth introduction to the various peripherals, tools, and techniques used to turn your little Arduino device into something useful, artistic, and educational.

TD681.5/BI920



Raad, H.K. (2021). *Fundamentals of IoT and Wearable Technology Design* (1st ed.). John Wiley & Sons. ISBN 9781119617532

Fundamentals of IoT and Wearable Technology Design delivers a comprehensive exploration of the foundations of the Internet of Things (IoT) and wearable technology. Throughout the textbook, the focus is on IoT and wearable technology and their applications, including mobile health, environment, home automation, and smart living. Readers will learn about the most recent developments in the design and prototyping of these devices.

This interdisciplinary work combines technical concepts from electrical, mechanical, biomedical, computer, and industrial engineering, all of which are used in the design and manufacture of IoT and wearable devices. *Fundamentals of IoT and Wearable Technology Design* thoroughly investigates the foundational characteristics, architectural aspects, and practical considerations, while offering readers detailed and systematic design and prototyping processes of typical use cases representing IoT and wearable technology.

Later chapters discuss crucial issues, including PCB design, cloud and edge topologies, privacy and health concerns, and regulatory policies. Readers will also benefit from the inclusion of:

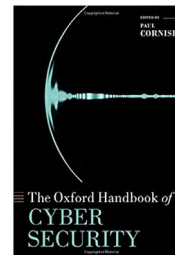
- A thorough introduction to the applications of IoT and wearable technology, including

biomedicine and healthcare, fitness and wellbeing, sports, home automation, and more;

- Discussions of wearable components and technologies, including microcontrollers and microprocessors, sensors, actuators and communication modules;
- An exploration of the characteristics and basics of the communication protocols and technologies used in IoT and wearable devices;
- An overview of the most important security challenges, threats, attacks and vulnerabilities faced by IoT and wearable devices along with potential solutions.

Perfect for research and development scientists working in the wearable technology and Internet of Things spaces, *Fundamentals of IoT and Wearable Technology Design* will also earn a place in the libraries of undergraduate and graduate students studying wearable technology and IoT, as well as professors and practicing technologists in the area.

TD681.5/Ra003

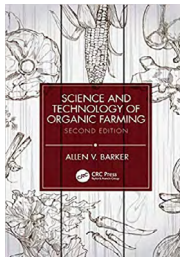


Cornish, P. (Ed.). (2021). *The Oxford Handbook of Cyber Security*. Oxford University Press. ISBN 9780198800682

Cyber security is concerned with the identification, avoidance, management and mitigation of risk in, or from, cyber space. The risk concerns harm and damage that might occur as the result of everything from individual carelessness, to organised criminality, to industrial and national security espionage and, at the extreme end of the scale, to disabling attacks against a country's critical national infrastructure. However, there is much more to cyber space than vulnerability, risk, and threat. Cyber space security is an issue of strategy, both commercial and technological, and whose breadth spans the international, regional, national, and personal. It is a matter of hazard and vulnerability, as much as an opportunity for social, economic and cultural growth. Consistent with this outlook, *The Oxford Handbook of Cyber Security* takes a comprehensive and rounded approach to the still evolving topic of cyber security. The structure of the *Handbook* is intended to demonstrate how the scope of cyber security is beyond threat, vulnerability, and conflict and how it manifests on many levels of human interaction. An understanding of cyber security requires us to think not just in terms of policy and strategy, but also in terms of technology, economy, sociology, criminology, trade, and morality. Accordingly, contributors to the *Handbook* include experts in cyber security from around

the world, offering a wide range of perspectives: former government officials, private sector executives, technologists, political scientists, strategists, lawyers, criminologists, ethicists, security consultants, and policy analysts.

TD004.056/Ox250



Barker, A.V. (2021).
Science and Technology of Organic Farming (2nd ed.). CRC Press.
ISBN 9780367567569

Organic farming is not only a philosophy; it is also a well-researched science. The second edition of *The Science and Technology of Organic Farming* presents the scientific basis of organic farming and the methods of application needed to achieve adequate yields through plant nutrition and protection.

Organic farming is a scientifically derived method of improving soil fertility to increase agricultural yields with limited chemical inputs. As such, it can meet public demand for reduced chemical inputs in agriculture and play a key role in meeting the needs of a growing world population. The new edition of this highly regarded book gives clear and comprehensive details on how soil fertility can be maintained and how plants can be nourished in organic agriculture.

- Chapters on soil fertility and plant nutrition explain the chemistry of the plant, the soil, and the soil solution and outline the importance of plant macronutrients and micronutrients;
- The book offers practical information on using of green manures, composts and lime to maintain soil fertility; introduces methods of tillage of land; provides organic methods of controlling weeds, insects, and diseases; and suggests how food produce can be stored without refrigeration;

- The text provides information on how to assess and govern the nutritional status of crops and the fertility and condition of soil and presents guidelines, recommendations, and procedures for determining the best fertility recommendations for individual situations;

- This edition includes an entirely new chapter on hydroponics that explains organic approaches to hydroponic crop production.

With a full bibliography of references, this text is a practical guide for anyone interested in organic farming, from farmers and agricultural advisers to teachers, soil scientists, plant scientists, entomologists and students of other biological and environmental sciences.

TD631.147/Ba655



McIntyre, S.M. (2021).
Organic Food and Farming: A Reference Handbook. ABC-CLIO.
ISBN 9781440870033

Organic Food and Farming: A Reference Handbook is a valuable resource for students and general readers curious about the history, evolution, and growth of the organic food movement.

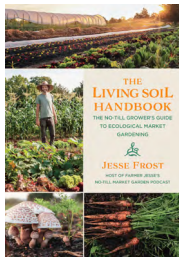
Organic Food and Farming: A Reference Handbook begins with a deep dive into the origins of organic farming, offering a clear discussion of what constitutes organic production and how that has changed over time. Next, the volume provides a comprehensive overview of growth of organics as both an industry and a social movement and the inherent challenges that occur from trying to be both. The book additionally covers controversial issues and challenges, along with good news about what is working and what is possible.

Included are essays by scholars, farmers, and experts working with NGOs as well as profiles of key people and organizations in the organic sector. Additional chapters include data and documents, a comprehensive resource list, and a detailed chronology of the key events in the history of the organic sector. Distinguishing it from others that laud or dismiss organic food and farming practices is this book's objective nature, which allows it to be used as a definitive resource on the topic.

Features:

- Chronology of the years 1840–2019, including more than 100 entries describing key moments in the history of organic farming and food;
- Essays by organic farmers and scholars, including one by Grace Gershuny, author, educator, and one of the original USDA National Organic Program staff members who helped write the original regulations;
- A comprehensive overview of growth of organics as both an industry and a social movement and the inherent challenges that occur from trying to be both;
- Survey of the history of organic food and farming that helps readers identify key issues in an easy-to-understand fashion.

TD631.147/Mc200



Frost, J. (2021). *The Living Soil Handbook : The No-Till Grower's Guide to Ecological Market Gardening*. Chelsea Green Publishing. ISBN 9781645020264

Discovering how to meet the soil's needs is the key task for every market gardener. In this comprehensive guide, Farmer Jesse Frost shares all he has learned through experience and experimentation with no-till practices on his home farm in Kentucky and from interviews and visits with highly successful market gardeners in his role as host of The No-Till Market Garden Podcast.

The Living Soil Handbook is centered around the three basic principles of no-till market gardening:

- Disturb the soil as little as possible;
- Keep it covered as much as possible;
- Keep it planted as much as possible.

Farmer Jesse Frost then guides readers in applying those principles to their own garden environments, with their own materials, to meet their own goals.

Beginning with an exploration of the importance of photosynthesis to living soil, *The Living Soil Handbook* provides in-depth information on:

- Turning over beds;
- Using compost and mulch;
- Path management;
- Incorporating biology, maintaining

fertility;

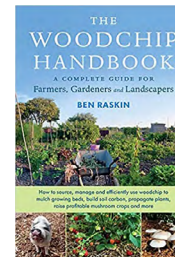
- Cover cropping;
- Diversifying plantings through intercropping;

- Production methods for seven major crops.

Throughout, the book emphasizes practical information on all the best tools and practices for growers who want to build their livelihood around maximizing the health of their soil.

Farmer Jesse Frost reminds growers that "as possible" is the mantra for protecting the living soil: disturb the soil as little as you possibly can in your context. He does not believe that growers should anguish over what does and does not qualify as "no-till." If you are using a tool to promote soil life and biology, that's the goal. Jesse's goal with *The Living Soil Handbook* is to provide a comprehensive set of options, materials, and field-tested practices to inspire growers to design a soil-nurturing no-till system in their unique garden or farm ecosystem.

TD631.147/Fr906



Raskin, B. (2021). *The Woodchip Handbook : A Complete Guide for Farmers, Gardeners and Landscapers*. Chelsea Green Publishing. ISBN 9781645020486

The first and only complete guide to sourcing and using woodchip – an abundant, inexpensive, and ecologically sustainable material – for savvy growers and landscapers at any scale, from farm to garden to greenhouse.

The Woodchip Handbook is the essential guide to the many uses of woodchip both in regenerative agriculture and horticulture. Author Ben Raskin, Head of Horticulture and Agroforestry at the Soil Association, draws on his extensive practical experience using woodchip, provides the latest research from around the world, and presents inspiring case studies from innovative farmers.

The book explores and unlocks the tremendous potential of woodchip to enhance soil health and plant growth:

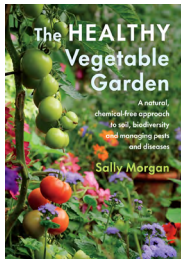
- As a natural mulch for weed suppression, temperature buffering, and water conservation;
- As a growing medium for propagating plants;
- As a decomposing source of warmth for hotbeds in the greenhouse or hoop house;
- As a carbon-rich compost ingredient that supports beneficial fungi and microorganisms;
- As a powerful soil health booster, when applied as small-sized ramial chipped wood;
- As an ideal substrate for growing many kinds of edible or medicinal mushrooms;

- As a sustainable, versatile, and durable material for foot paths and ornamental landscaping.

Some of these techniques, like mulching – or the renewable harvest potential from coppicing and pollarding trees – have been around forever. Yet there is always new science to be discovered, such as the role that salicylic acid from willow woodchip can play in preventing tree diseases or promoting livestock health when used as a bedding material.

Whether you are a commercial grower or farmer, a permaculture practitioner, or a serious home gardener producing your own fruit and vegetables, *The Woodchip Handbook* will show you how to get the most out of this readily available and renewable material.

TD631.5/Ra657



Morgan, S. (2021). *The Healthy Vegetable Garden : A Natural, Chemical-free Approach to Soil, Biodiversity and Managing Pests and Diseases*. Chelsea Green Publishing. ISBN 9781645020646

In *The Healthy Vegetable Garden*, expert organic gardener S. Morgan explains how to use natural approaches to cope with the challenges of a changing climate through principles from regenerative gardening, agroecology, and permaculture – all to help your green space thrive.

The book shows you how to:

- Combat disease and keep pests at bay with natural predators, companion planting, and trap and barrier crops;
- Choose the right plants to attract pollinators and pest predators;
- Build a healthy soil full of organic matter, earthworms, and mycorrhizal fungi;
- Regenerate soil through no-dig practices, composting, cover crops, and mulching;
- Boost biodiversity through the use of crop rotations and polyculture;
- Rewild your garden by creating a range of habitats, making use of walls and fences, log piles, water features, and wild corners;
- Understand plant defenses and use biocontrols;
- Make natural barriers, traps, and lures.

With this book, growers of all levels will start reducing incidents of pests and diseases while creating a verdant habitat – all without the need for fertilizers, pesticides, or weedkillers.

TD631.147/Mo551



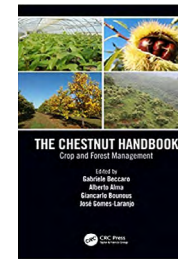
Hodgson, I. (2021). *New Wild Garden : Natural-style Planting and Practicalities*. Frances Lincoln Limited Publishers. ISBN 9780711260092

The New Wild Garden combines new approaches to a more naturalistic design with the practical side of growing wildflowers and shows how to incorporate wildflowers, real meadows and a looser prairie-style planting into gardens and wild spaces.

With serious concern into the decline of pollinators and habitats, meadows are currently the focus of enormous creativity. Gardeners, wildlife lovers, professional designers and seed manufacturers are all pushing the envelope of what can be grown, the pictorial effects that can be achieved, and the benefits that this provides for gardeners and wildlife. This book includes 15 step-by-step projects and an essential plant list, as well as offering inspiration to gardeners and an overview of the most influential movement in garden design over recent decades. In this book you can learn:

- How to sow or plant meadow to suit your space;
- Planting plans for every plot size: from a container, small patch, allotment or an acre;
- How to grow and propagate more than 50 kinds of wildflowers;
- Understand and emulate the new natural style followed by designers;
- Meadow recipes for every soil, situation and wildlife habitat.

TD635.9/Ho068



Beccaro, G., Alma, A., Bounous, G., & Gomes-Laranjo, J. (Eds.). (2021). *The Chestnut Handbook : Crop and Forest Management*. CRC Press. ISBN 9781138334021

From Mediterranean Europe to Chile and from China to Australia, chestnut cultivation surface has greatly increased globally over the last several decades. The crop provides solid revenue to growers, is resilient to climate change and the fruits are a calorie-dense, carbohydrate-rich nut, the production of which improves soil and sequesters carbon. However, there is a great lack and a great need for technical information on management of old and new chestnut plantations.

The book shares achievements in chestnut development and cultivation including information on sustainable planning and management of chestnut production from nursery to plantation, entomology, pathology, and ecosystem services. Cultivation techniques of Chinese, Japanese, and European chestnut species including hybrids are described containing information on over 550 local and commercial cultivars. Beautiful original handmade drawings and technical sheets facilitate accessibility and comprehension of information.

With the collaboration of more than 30 researchers from internationally renowned institutes, professionals and nurserymen this book serves as a technical reference and valuable resource for agronomists, forest experts, farmers, researchers and students of agricultural and forestry sciences.

TD634/Ch515



Van Heck, E. (2021). *Technology Meets Flowers : Unlocking the Circular and Digital Economy*. Springer. ISBN 9783030693022

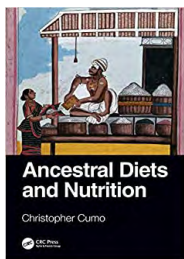
Why do the Dutch continue to play a central role in the global production, sales, and distribution of flowers? What are the origin and history of the bulb and flower industry in the Netherlands?

How are Artificial Intelligence (AI), complex algorithms, and modern distribution systems ensuring that fresh flowers reach their destination on time?

This very entertaining and informative book introduces readers to the global flower business, and highlights the surprising factors that helped the Dutch become global leaders on the flower markets.

The book reveals the complexity of the flower markets in terms of their ability to produce, transport, and deliver fresh flowers on a global scale. In addition, it explores how information advantage is created by blending business with technology, from robotized glasshouses to the use of AI-driven algorithms for flower production and distribution. In closing, the book presents lessons learned regarding the circular and digital transformation of the high-speed flower business and markets in order to deliver sustainable value for customers.

TD635.92/He085



Cumo, C. (2021). *Ancestral Diets and Nutrition*. CRC Press. ISBN 9780367235987

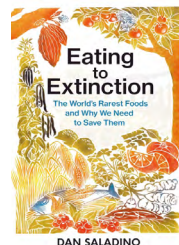
The book supplies dietary advice based on the study of prehuman and human populations worldwide over the last two million years. This thorough, accessible book uses prehistory and history as a laboratory for testing the health effects of various foods. It examines all food groups by drawing evidence from skeletons and their teeth, middens, and coprolites along with written records where they exist to determine peoples' health and diet.

The book appeals to practitioners in medicine, nutrition, anthropology, biology, chemistry, economics, and history, and those seeking a clear explanation of what humans have eaten across the ages and what we should eat now.

Features:

- Sixteen chapters examine fat, sweeteners, grains, roots and tubers, fruits, vegetables, and animal and plant sources of protein;
- Integrates information about diet, nutrition, and health from ancient, medieval, modern and current sources, drawing from the natural sciences, social sciences, and humanities;
- Provides comprehensive coverage based on the study of several hundred sources and the provision of over 2,000 footnotes;
- Presents practical information to help shape readers' next meal through recommendations of what to eat and what to avoid.

TD613.2/Cu443



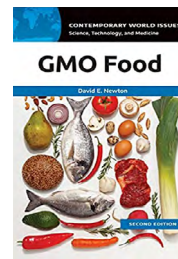
Saladino, D. (2021). *Eating to Extinction: The World's Rarest Foods and Why We Need to Save Them*. Jonathan Cape. ISBN 9781787331235

Eating to Extinction is an astonishing journey through the past, present and future of food, a love letter to the diversity of global food cultures, and a work of great urgency and hope.

From a tiny crimson pear in the west of England to great chunks of fermented sheep meat in the Faroe Islands to an exploding corn in Mexico that might just hold the key to the future of food – these are just some of the thousands of foods around the world today that are at risk of being lost for ever.

In this captivating and wide-ranging book, Dan Saladino spans the globe to uncover the stories of these foods. He meets the pioneering farmers, scientists, cooks, food producers and indigenous communities who are preserving food traditions and fighting for change. All human history is woven through these stories, from the first great migrations to the slave trade to the refugee crisis today. But *Eating to Extinction* is about so much more than preserving the past. *Eating to Extinction* reveals a world at a crisis point: the future of our planet depends on reclaiming genetic biodiversity before it is too late.

TD664/Sa242



Newton, D.E. (2021). *GMO Food: A Reference Handbook* (2nd ed.). ABC-CLIO. ISBN 9781440877766

GMO Food: A Reference Handbook offers an in-depth discussion of genetically modified food. It covers the history of, opposition to, regulation of, and labeling of genetic modifications, along with the potential benefits and harm involved.

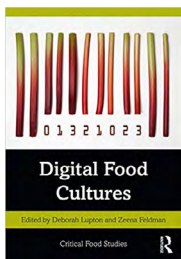
GMO Food: A Reference Handbook is intended to serve as a research guide for young adults in high school and beyond. Students at all grade levels should be able to use the book as an introduction to the history of genetic engineering of organisms and the use of this technology for the development of new forms of crops and foods.

They will learn briefly about historic methods of plant and animal modification (such as cross-breeding) and, in more detail, how discoveries since the late nineteenth century have greatly changed the process of plant and animal modification. These discoveries include important steps forward in genetics, biochemistry, molecular biology, genetic engineering, and related fields. They will also learn about the variety of social, political, philosophical, economic, and other issues that have arisen alongside these scientific advances, as well as about some of the laws, regulations, and other solutions that have been developed for dealing with the range of attitudes about genetically modified foods. The second edition covers developments since 2014.

Features:

- Provides readers with the basic background they need about genetically modified foods in order to understand current issues;
- Includes additional readings, a comprehensive chronology, a glossary, and other features to aid students' understanding of current issues and guide them in designing and conducting their own research;
- Offers ideas for additional research from a list of important individuals and organizations;
- Rounds out the author's expertise in perspectives essays that show readers a diversity of viewpoints.

TD602.6/Ne958



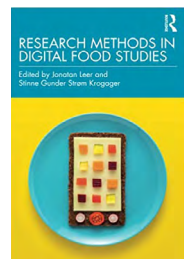
Lupton, D., & Feldman, Z. (Eds.). (2020). *Digital Food Cultures*. Routledge. ISBN 9781138392595

This book explores the interrelations between food, technology and knowledge-sharing practices in producing digital food cultures.

Digital Food Cultures adopts an innovative approach to examine representations and practices related to food across a variety of digital media: blogs and vlogs (video blogs), Facebook, Instagram, YouTube, technology developers' promotional media, online discussion forums and self-tracking apps and devices. The book emphasises the diversity of food cultures available on the internet and other digital media, from those celebrating unrestrained indulgence in food to those advocating very specialised diets requiring intense commitment and focus. While most of the digital media and devices discussed in the book are available and used by people across the world, the authors offer valuable insights into how these global technologies are incorporated into everyday lives in very specific geographical contexts.

This book offers a novel contribution to the rapidly emerging area of digital food studies and provides a framework for understanding contemporary practices related to food production and consumption internationally.

TD664/Di417

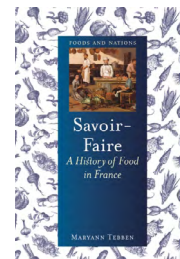


Leer, J., & Krogager, S.G.S. (Eds.). (2021). *Research Methods in Digital Food Studies*. Routledge. ISBN 9780367819279

This book offers the first methodological synthesis of digital food studies. It brings together contributions from leading scholars in food and media studies and explores research methods from textual analysis to digital ethnography and action research. In recent times, digital media has transformed our relationship with food which has become one of the central topics in digital and social media. This spatiotemporal shift in food cultures has led us to reimagine how we engage in different practices related to food as consumers. The book examines the opportunities and challenges that the new digital era of food studies presents and what methodologies are employed to study the changed dynamics in this field. These methodologies provide insights into how restaurant reviews, celebrity webpages, the blogosphere and YouTube are explored, as well as how to analyse digital archives, digital soundscapes and digital food activism and a series of approaches to digital ethnography in food studies. The book presents ideas and suggestions for how to get started on one's own research in the field through well-structured chapters.

The book will serve as a reference for both experienced researchers and beginners in the digital food studies field, health studies, leisure studies, anthropology, sociology, food sciences, and media and communication studies.

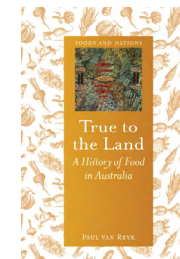
TD664/Re702



Tebben, M. (2020). *Savoir-Faire: A History of Food in France*. Reaktion Books. ISBN 9781789143324

This is a comprehensive account of France's rich culinary history, not only full of tales of haute cuisine, but seasoned with myths and stories from a wide variety of times and places; from snail hunting in Burgundy to female chefs in Lyon, and from cheese appreciation in Roman Gaul to bread debates from the Middle Ages to the present. It examines the use of less familiar ingredients such as chestnuts, couscous and oysters, French food in literature and film, the influence of France's overseas territories on the shape of French cuisine today, and includes historical recipes for readers to try at home.

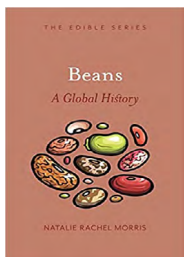
TD641.568/Te010



Van Reyk, P. (2021). *True to the Land: A History of Food in Australia*. Reaktion Books. ISBN 9781789144062

Spanning 65,000 years, this book provides a history of food in Australia from its beginnings, with the arrival of the first peoples and their stewardship of the land, to a present where the production and consumption of food is fraught with anxieties and competing priorities. It describes how food production in Australia is subject to the constraints of climate, water and soil, leading to centuries of unsustainable agricultural practices post-colonisation. Australian food history is also the story of its xenophobia and the immigration policies pursued which continue to question the image of Australia as a model multicultural society though the history ends on a positive note as Indigenous peoples take increasing control of how their food is interpreted and marketed.

TD641.568/Va460

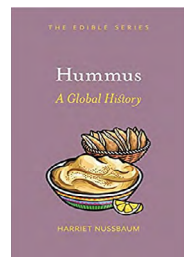


Morris, N.R. (2020).
Beans : A Global History.
Reaktion Books.
ISBN 9781789142044

Beans are considered a basic staple in most kitchen cupboards, yet these humble foodstuffs have a very long history: there is evidence that beans have been eaten for 9,000 years. Whether dried, frozen or canned, beans have substantial nutritional and environmental benefits, and can easily be made into a wholesome, satisfying meal. From garbanzos to lentils, and from favas to soybeans, *Beans: A Global History* narrates the rich story of these small yet mighty edibles.

Featuring historic and modern recipes that celebrate the wide variety of bean cuisines, this book chimes with the modern trend for healthy eating, and takes readers on a vivid journey through the gastronomical, botanical, cultural and political history of beans.

TD635/Mo643

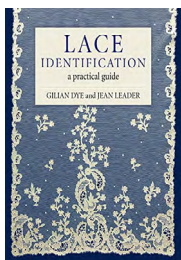


Nussbaum, H. (2021).
Hummus : A Global History. Reaktion Books.
ISBN 9781789144628

This is a global history of *hummus bi-tahina*, the delicious combination of chickpeas, tahini, lemon and garlic that we know and love as hummus. The story begins in the medieval kitchens of the Near and Middle East and ends with its rise in popularity in the Western world at the end of the twentieth century.

This book also addresses the international controversy over ownership of the dish, and illustrates the extent to which hummus has been embraced by Western food culture today. Though other Mediterranean dishes have become popular in the West, none can be compared to hummus, which can be found in any supermarket and in vast numbers of eating establishments. Hummus has become a global phenomenon, and our very favourite dip.

TD641(09)/Nu760



Dye, G., & Leader, J. (2021). *Lace Identification: A Practical Guide*. The Crowood Press Ltd. ISBN 9781785008665

What is that lace? How old is it? Has it been made by hand or machine? What would it have been used for? These are the questions that this practical guide sets out to answer. Lavishly illustrated, it shows you how to identify the sort of lace that you might find hiding away in drawers and cupboards, or buy at a vintage textile fair. It deals predominantly with the hand-made and machine laces of the nineteenth and twentieth centuries.

Topics covered include: an introductory survey of the different types of lace, their history and construction; guidelines for a systematic approach to lace identification and advice on cleaning and storage; chapters on the different types of lace: bobbin lace, needlelace, craft laces such as crochet and tatting, machine lace and lace based on tapes and nets. There are exercises on distinguishing similar pieces of lace made using different techniques and there are illustrations of how lace has been used and of some of the tools used in the making.

Written by experienced lacemakers, G. Dye and J. Leader, it presents items from their own collections to illuminate and inspire others who wish to know more about this fascinating textile. *Lace Identification* is a complete guide to the beauty of this stitch craft, and will richly reward all those who study the treasures they may own.

TD646.2/Dy170

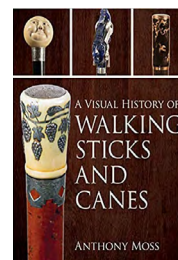


Green, A. (2021). *Gloves: An Intimate History*. Reaktion Books. ISBN 9781789144551

From hand-knitted mittens to exquisitely embroidered confections and Bluetooth-enabled gloves that function like a mobile phone, the extraordinary variety of gloves is a tribute to human ingenuity. So, too, is the diversity of their often contradictory cultural associations. Gloves have been linked to honour, status and identity, but also to decadence and deceit. Their powers have extended to marriage, magic and even murder.

This beautifully illustrated history of gloves draws on examples from across the world to explore their cultural significance. Anne Green explores gloves both as material objects with their own fascinating history, and as fictional creations from folktale, literature and film. That rich heritage lies behind the recent resurgence of gloves as items of high fashion.

TD687.25/Gr330



Moss, A. (2021). *A Visual History of Walking Sticks and Canes*. Rowman & Littlefield. ISBN 9781538144954

A comprehensive study of walking canes from around the world, dating from the distant past to the modern day. This book presents a historical context on both practical and ceremonial usage. Specially shot pictures showcase the celebrated A&D Collection of canes, alongside enlightening prose elucidating the cane's enduring relevance to society.

More than just a mobility aid, the cane has held numerous offices of significance. From the staff of the legendary Monkey King in the classic Chinese Journey to the West, or the stylised crosiers carried by high-ranking prelates from the Roman Catholic church, to the truncheon wielded by Mr Punch in puppet shows, canes are embedded in the culture of almost every country around the globe. Roving the map with one hand and thumbing through history books with the other, *A Visual History of Walking Sticks and Canes* seeks to introduce the collector to the diverse wealth of canes and entertain the casual reader.

Intermingled with over 800 full-colour pictures are descriptions of gadget canes for tradesmen, squirting canes for pranksters, and glamorous Art Nouveau canes for the dapper gentlemen of the 1920s.

TD687.25/Mo780



Treusch, P. (2021). *Robotic Knitting: Re-Crafting Human-Robot Collaboration Through Careful Cobotting*. Transcript Verlag. ISBN 9783837652031

As a reaction to typically dead-end debates on future human and robot collaboration that tend to be either dismissive or overly welcoming towards "cobot" technologies, this book provides a technofeminist intervention. Pat Treusch not only shows how both the fields of technofeminism and robotics can engage in a practical exchange through knitting, but also contributes a tangible example of cobotting dynamics. *Robotic Knitting* re-negotiates the boundaries between formalisation and embodiment, craft and high-tech as well as useful and dysfunctional machines. It re-crafts the nature of collaboration between human and robot. This finally entails an alternative mode of relating – a mode that enables an account of careful cobotting.

TD646.26/.27/Tr437



Jones, K.L., Johnson, C.M., & Purtich, K. (2021). *Sporting Fashion : Outdoor Girls 1800 to 1960*. DelMonico BooksPrestel. ISBN 9783791359434

Discover how the designers of women's sporting attire navigated the worlds of fashion, function, and propriety, from the beginning of the 19th century to 1960.

This book offers a stunning visual record of the evolution of women's sporting attire over nearly two centuries. With selections from Keds, Pendleton, and Spalding and garments by Coco Chanel, Claire McCardell, and Jean Patou, among many others, it features familiar names in fashion, as well as significant rediscoveries. At the intersection of the history of fashion and feminism, *Sporting Fashion* highlights the extraordinary impact of new technologies and evolving social mores on women's clothing for sport. It explores how the basic forms of women's sportswear we know today – from swimsuits to sneakers – were developed during a time when women were achieving more freedom. Full color illustrations of sport and leisure ensembles are included, along with magazine spreads and archival images.

In thematic sections, the authors examine the ways women entered into the sporting world – from traveling to calisthenics, motorcycling to promenading. The book looks at examples of clothing that allowed women to walk freely and compete in sports previously restricted to men. It explores how designers reacted to and encouraged the growing acceptance of exposed skin

at public beaches and pools – and how cold weather fashion made its way onto the slopes and ice. Never before have the garments that defined women's roles as both spectators and athletes been presented on this scale and in such detail.

Published with the American Federation of Arts and the FIDM Museum at the Fashion Institute of Design & Merchandising/Los Angeles.

TD687(09)/Jo510



Volonté, P. (2022). *Fat Fashion : The Thin Ideal and the Segregation of Plus-size Bodies*. Bloomsbury Visual Arts. ISBN 9781350126930

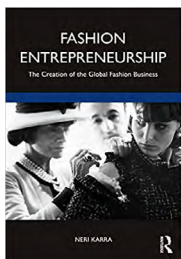
Average body mass in many Western cultures is getting larger and yet the fashion system seems mostly unchanged. Major fashion houses still limit their output to small sizes and the dominant ideal of the female body in fashion imagery is still thin – dangerously thin according to World Health Organization standards. Why is the industry forfeiting a considerable share of the market in the form of plus-size consumers, seemingly against its commercial interests? Why does the thin ideal reign supreme despite damning evidence of its harm to women? And is there a way out of this system of thin ideals and segregated fat bodies?

In this original study, Paolo Volonté answers these questions and more, drawing on influential literature on the body, beauty standards and the roles of clothing in society. He reveals some surprising factors behind the perpetuation of the thin ideal such as the precedent of thin models and the introduction of standardised sizing for mass-manufactured clothing. He also revisits less surprising factors such as the attitudes of designers and consumers towards the female body, and notions of “perfection”.

By critically analysing these factors, Paolo Volonté reveals why plus-size fashion is often characterised by “low aesthetic commitment” and low quality marketing. He explores the

nature of the segregation of fat bodies in fashion and considers what the future may hold for consumers, designers and marketers alike.

TD687/Vo477



Karra, N. (2022). *Fashion Entrepreneurship: The Creation of the Global Fashion Business*. Routledge. ISBN 9781138208612

Fashion generates over a trillion dollars in sales annually and has the priceless ability to beguile its customers around the world. *Fashion Entrepreneurship: The Creation of the Global Fashion Business* provides the first authoritative history of the global fashion industry, from its emergence to the present day, with a focus on the entrepreneurs at the nucleus of many of the world's influential brands. It shows how successive generations of entrepreneurs built and developed their brands, democratizing access to fashion brands throughout the world.

This book analyzes the careers of the greatest fashion entrepreneurs from the nineteenth century onward, including such legendary names as Charles Worth, Coco Chanel, Christian Dior, Yves Saint Laurent, and Giorgio Armani. It shows how this distinct form of entrepreneurship has arisen and what lessons new entrepreneurs can learn from the past to create thriving fashion businesses in today's rapidly changing modern world.

Filled with fascinating stories from the world of fashion, as well as detailed business analysis and practical advice for people looking to create successful brands, this book is an essential read for students of fashion and entrepreneurship, and anyone looking to understand, and succeed in, this most glamorous of industries.

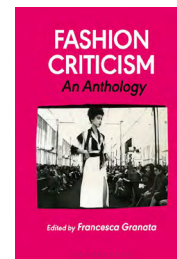
TD687(09)/Ka650



Cowie, H.L. (2022). *Victims of Fashion: Animal Commodities in Victorian Britain*. Cambridge University Press. ISBN 9781108495172

Animal products were used extensively in nineteenth-century Britain. A middle-class Victorian woman might wear a dress made of alpaca wool, drape herself in a sealskin jacket, brush her hair with a tortoiseshell comb, and sport feathers in her hat. She might entertain her friends by playing a piano with ivory keys or own a parrot or monkey as a living fashion accessory. In this innovative study, Helen Cowie examines the role of these animal-based commodities in Britain in the long nineteenth century and traces their rise and fall in popularity in response to changing tastes, availability, and ethical concerns. Focusing on six popular animal products – feathers, sealskin, ivory, alpaca wool, perfumes, and exotic pets – she considers how animal commodities were sourced and processed, how they were marketed and how they were consumed. She also assesses the ecological impact of nineteenth-century fashion.

TD687(09)/Co955



Granata, F. (Ed.). (2021). *Fashion Criticism: An Anthology*. Bloomsbury Visual Arts. ISBN 9781350058804

This is the first anthology of fashion criticism, a growing field that has been too long overlooked. *Fashion Criticism* aims to redress the balance, claiming a place for writing on fashion alongside other more well-established areas of criticism.

Exploring the history of fashion criticism in the English language, this essential work takes readers from the writing published in avant-garde modernist magazines at the beginning of the twentieth century to the fashion criticism of Robin Givhan – the first fashion critic to win a Pulitzer Prize – and of Judith Thurman, a National Book Award winner. It covers the shift in newspapers from the so-called “women’s pages” to the contemporary style sections, while unearthing the work of cultural critics and writers on fashion including Susan Sontag and Eve Babitz (Vogue), Bebe Moore Campbell (Ebony), Angela Carter (New Statesman) and Hilton Als (New Yorker).

Examining the gender dynamics of the field and its historical association with the feminine, *Fashion Criticism* demonstrates how fashion has gained ground as a subject of critical analysis, capitalizing on the centrality of dress and clothing in an increasingly visual and digital world. The book argues that fashion criticism occupied a central role in negotiating shifting gender roles as well as shifting understandings of race.

Bringing together two centuries of previously uncollected articles and writings, from Oscar Wilde's editorials in *The Woman's World* to the ground-breaking fashion journalism of the 1980s and today's proliferation of fashion bloggers, it will be an essential resource for students of fashion studies, media and journalism.

TD687/Fa733