

## New Books From Cambridge University Press

Explores the possibilities and limits of the international legal architecture and its expert communities in shaping the world of tomorrow.

Dynamic data assimilation is the assessment, combination and synthesis of observational data, scientific laws and mathematical models to determine the state of a complex physical system, for instance as a preliminary step in making predictions about the system's behaviour. The topic has assumed increasing importance in fields such as numerical weather prediction where conscientious efforts are being made to extend the term of reliable weather forecasts beyond the few days that are presently feasible. This book is designed to be a basic one-stop reference for graduate students and researchers. It is based on graduate courses taught over a decade to mathematicians, scientists, and engineers, and its modular structure accommodates the various audience requirements. Thus Part I is a broad introduction to the history, development and philosophy of data assimilation, illustrated by examples; Part II considers the classical, static approaches, both linear and nonlinear; and Part III describes computational techniques. Parts IV to VII are concerned with how statistical and dynamic ideas can be incorporated into the classical framework. Key themes covered here include estimation theory, stochastic and dynamic models, and sequential filtering. The final part addresses the predictability of dynamical systems. Chapters end with a section that provides pointers to the literature, and a set of exercises with instructive hints.

The world's bestselling introductory Latin course.

Information Theory: Coding Theorems for Discrete Memoryless Systems presents mathematical models that involve independent random variables with finite range. This three-chapter text specifically describes the characteristic phenomena of information theory. Chapter 1 deals with information measures in simple coding problems, with emphasis on some formal properties of Shannon's information and the non-block source coding. Chapter 2 describes the properties and practical aspects of the two-terminal systems. This chapter also examines the noisy channel coding problem, the computation of channel capacity, and the arbitrarily varying channels. Chapter 3 looks into the theory and practicality of multi-terminal systems. This book is intended primarily for graduate students and research workers in mathematics, electrical engineering, and computer science. This book discusses how facts travel, and when and why they sometimes travel well enough to acquire a life of their own. Whether or not facts travel in this manner depends not only on their character and ability to play useful roles elsewhere, but also on the labels, packaging, vehicles and company that take them across difficult terrains and over disciplinary boundaries. These diverse stories of travelling facts, ranging from architecture to nanotechnology and from romance fiction to climate science, change the way we see the nature of facts. Facts are far from the bland and rather boring but useful objects that scientists and humanists produce and fit together to make narratives, arguments and evidence. Rather, their extraordinary abilities to travel well shows when, how and why facts can be used to build further knowledge beyond and away from their sites of original production and intended use.

New religions emerge as distinct entities in the religious landscape when innovations are introduced by a charismatic leader or a schismatic group leaves its parent organization. New religious movements (NRMs) often present novel doctrines and advocate unfamiliar modes of behavior, and have therefore often been perceived as controversial. NRMs have, however, in recent years come to be treated in the same way as established religions, that is, as complex cultural phenomena involving myths, rituals and canonical texts. This Companion discusses key features of NRMs from a systematic, comparative perspective, summarizing results of forty years of research. The volume addresses NRMs that have caught media attention, including movements such as Scientology, New Age, the Neopagans, the Sai Baba movement and Jihadist movements active in a post-9/11 context. An essential resource for students of religious studies, the history of religion, sociology, anthropology and the psychology of religion.

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

For five decades, rising US income and wealth inequality has been driven by wage repression and production realignments benefitting the top one percent of households. In this inaugural book for Cambridge Studies in New Economic Thinking, Professor Lance Taylor takes an innovative approach to measuring inequality, providing the first and only full integration of distributional and macro level data for the US. While work by Thomas Piketty and colleagues pursues integration from the income side, Professor Taylor uses data of distributions by size of income and wealth combined with the cost and demand sides, flows of funds, and full balance sheet accounting of real capital and financial claims. This blends measures of inequality with national income and product accounts to show the relationship between productivity and wages at the industry sector level. Taylor assesses the scope and nature of various interventions to reduce income and wealth inequalities using his simulation model, disentangling wage growth and productivity while challenging mainstream models.

Cicero's dialogue on oratory responded to the political crisis of Julius Caesar but ultimately invented 'modern' literary history.

This is the first of three volumes concerning the history of the oldest press in the world, a history that extends from the sixteenth century to the present day.

Science and technological innovation wield unfathomable power in the shaping of social life and the environment. Yet, the democratic control and shaping of technology remains at best an unfinished project, not least due to dominant paradigms of governance implicitly that have historically delegated the good to market forces. This Element explores responsible innovation as an emergent discourse in governing science and society relations. Specifically, it explores the making of responsible innovation through three lenses: first, as a way of reconfiguring the concept of responsibility in science governance with far-reaching implications for scientific culture and practice; second, as a way of injecting agency through deliberative methods aimed at anticipating and deliberating upon the kinds of possible worlds that science and technology bring into being; and third, as a framework for governing innovation sensitive to the dynamics of specific technologies and to the particular socio-political context in which innovation develops.

This richly illustrated and clearly written undergraduate textbook captures the excitement and beauty of geometry. The approach is that of Klein in his Erlangen programme: a geometry is a space together with a set of transformations of the space. The authors explore various geometries: affine, projective, inversive, hyperbolic and elliptic. In each case they carefully explain the key results and discuss the relationships between the geometries. New features in this second edition include concise end-of-chapter summaries to aid student revision, a list of further reading and a list of special symbols. The authors have also revised many of the end-of-chapter exercises to make them more challenging and to include some interesting new results. Full solutions to the 200 problems are included in the text, while complete solutions to all of the end-of-chapter exercises are available in a new Instructors' Manual, which can be downloaded from [www.cambridge.org/9781107647831](http://www.cambridge.org/9781107647831).

This second edition has all the tables required for elementary statistical methods in the social, business and natural sciences.

This 2003 book is a full-scale history of early modern English literature, offering perspectives on English literature produced in Britain between the Reformation and the Restoration. While providing the general coverage and specific information expected of a major history, its twenty-six chapters address recent methodological and interpretive developments in English literary studies. The book has five sections: 'Modes and Means of Literary Production, Circulation, and Reception', 'The Tudor Era from the Reformation to Elizabeth I', 'The Era of Elizabeth and James VI', 'The Earlier Stuart Era', and 'The Civil War and Commonwealth Era'. While England is the principal focus, literary production in Scotland, Ireland and Wales is treated, as are other subjects less frequently examined in previous histories, including women's writings and the literature of the English Reformation and Revolution. This history is an essential resource for specialists and students.

Cambridge Advanced Learner's Dictionary KLETT VERSION Cambridge University Press

An accessible and wide-ranging study of the history of the book within local, national and global contexts.

The book provides in-depth insight to scholars, practitioners, and activists dealing with human rights, their expansion, and the emergence of 'new' human rights. Whereas legal theory tends to neglect the development of concrete individual rights, monographs on 'new' rights often deal with structural matters only in passing and the issue of 'new' human rights has received only cursory attention in literature. By bringing together a large number of emergent human rights, analysed by renowned human rights experts from around the world, and combining the analyses with theoretical approaches, this book fills this lacuna. The comprehensive and dialectic approach, which enables insights from individual rights to overarching theory and vice versa, will ensure knowledge growth for generalists and specialists alike. The volume goes beyond a purely legal analysis by observing the contestation, rhetorics, the struggle for recognition of 'new' human rights, thus speaking to human rights professionals beyond the legal sphere.

Cambridge English Empower is more than just a course book - it's a complete solution for effective learning and teaching! This new general English course for adult and young adult learners combines course content from Cambridge University Press with validated assessment from the experts at Cambridge English Language Assessment. Empower's unique mix of engaging classroom materials and reliable assessment, with personalised online practice, enables learners to make consistent and measurable progress.

Dispute Management is an introduction to dispute processes. It is a vital resource for students, lawyers and dispute practitioners.

This book features 27 integrated essays that offer access to the art, life, and legacy of one of the world's most influential artists.

From Roosevelt to Truman initially investigates Truman's foreign policy background and then examines the legacy that FDR bequeathed to him.

There is a growing interest in activity theory across behavioral and social sciences. Activity theory has a very rich and solid heritage in the works of Vygotsky, Luria, and Leont'ev. The development of activity theory depends on the understanding of this heritage. However, this literature is very demanding and often proves inaccessible to new generations of scholars who want to pursue empirical studies. How can students and young researchers be helped to engage with this heritage as they carry out their inquiries in various social practices? This book provides researchers with an accessible text that also supports the use of the classic tradition of activity theory.

Publisher Description

This is the first full-length study to examine the links between high Romantic literature and what has often been thought of as a merely popular genre - the Gothic. Michael Gamer offers a sharply focused analysis of how and why Romantic writers drew on Gothic conventions whilst, at the same time, denying their influence in order to claim critical respectability. He shows how the reception of Gothic literature, including its institutional and commercial recognition as a form of literature, played a fundamental role in the development of Romanticism as an ideology. In doing so he examines the early history of the Romantic movement and its assumptions about literary value, and the politics of reading, writing and reception at the end of the eighteenth

century. As a whole the book makes an original contribution to our understanding of genre, tracing the impact of reception, marketing and audience on its formation.

This business classic features straight-talking advice you'll never hear in school. Featuring a new foreword by Ariel Emanuel and Patrick Whitesell Mark H. McCormack, one of the most successful entrepreneurs in American business, is widely credited as the founder of the modern-day sports marketing industry. On a handshake with Arnold Palmer and less than a thousand dollars, he started International Management Group and, over a four-decade period, built the company into a multimillion-dollar enterprise with offices in more than forty countries. To this day, McCormack's business classic remains a must-read for executives and managers at every level. Relating his proven method of "applied people sense" in key chapters on sales, negotiation, reading others and yourself, and executive time management, McCormack presents powerful real-world guidance on • the secret life of a deal • management philosophies that don't work (and one that does) • the key to running a meeting—and how to attend one • the positive use of negative reinforcement • proven ways to observe aggressively and take the edge • and much more Praise for What They Don't Teach You at Harvard Business School "Incisive, intelligent, and witty, What They Don't Teach You at Harvard Business School is a sure winner—like the author himself. Reading it has taught me a lot."—Rupert Murdoch, executive chairman, News Corp, chairman and CEO, 21st Century Fox "Clear, concise, and informative . . . Like a good mentor, this book will be a valuable aid throughout your business career."—Herbert J. Siegel, chairman, Chris-Craft Industries, Inc. "Mark McCormack describes the approach I have personally seen him adopt, which has not only contributed to the growth of his business, but mine as well."—Arnold Palmer "There have been what we love to call dynasties in every sport. IMG has been different. What this one brilliant man, Mark McCormack, created is the only dynasty ever over all sport."—Frank Deford, senior contributing writer, Sports Illustrated

This concise, illustrated history of the University of Cambridge, from its thirteenth-century origins to the present day, is the only book of its kind in print and is intended as a standard introduction for anyone interested in one of the world's greatest academic institutions. Many individuals are celebrated here who have exerted great influence upon developments within the University and beyond. But forces for change have often come from outside the University, from central government or from the aspirations and expectations of society at large. One of the prime objectives of this book is to describe how the university has reacted to, or resisted, these external pressures. At the same time it conveys an impression of the day-to-day experiences of students and their teachers and administrators over the University's 700-year history. Major university institutions, such as the University Press and the University Library, are also described briefly. The book contains many attractive and often unusual illustrations, of subjects ranging from medieval manuscripts to the striking new building projects of the 1990s.

William Risk, Timothy Gosnell and Arto Nurmikko have brought together their diverse expertise from industry and academia to write the first fully comprehensive book on the generation and application of blue-green lasers. This volume describes the theory and practical implementation of three techniques for the generation of blue-green light: nonlinear frequency conversion of infrared lasers, upconversion lasers, and wide bandgap semiconductor diode lasers. In addition, it looks at the various applications that have driven the development of compact sources of blue-green light, and reflects on the recent application of these lasers in high-density data storage, color displays, reprographics, and biomedical technology. Compact Blue-Green Lasers is suitable for graduate-level courses or as a reference for academics and professionals in optics, applied physics, and electrical engineering.

This book is devoted entirely to the theory of finite fields.

Teaching Secondary Mathematics is the essential guide for preservice mathematics teachers in Australia.

Comprehensive student-friendly resources designed for teaching Cambridge International AS and A Level English Language (syllabus 9093 for first examination in 2015). The core aim of this Coursebook is to help students to develop and apply the key skills they need to achieve in AS and A Level English Language. They will build the skills needed for assessment through frequent activities. Divided into two distinct parts for AS and A Level studies, the book covers a wide range of reading skills, such as understanding aspects of style, voice and tone. It also addresses the conventions of key kinds of writing and spoken language, from scripted speeches to travel articles, and looks at how they can capture these conventions in their own work.

'Brilliant' CANDICE CARTY-WILLIAMS, author of QUEENIE 'Essential' BERNARDINE EVARISTO, author of GIRL, WOMAN, OTHER 'Hugely important' PAULA AKPAN

As a minority in a predominantly white institution, taking up space is an act of resistance. Recent Cambridge grads Chelsea and Ore experienced this first-hand, and wrote Taking Up Space as a guide and a manifesto for change. FOR BLACK GIRLS: Understand that your journey is unique. Use this book as a guide. Our wish for you is that you read this and feel empowered, comforted and validated in every emotion you experience, or decision that you make. FOR EVERYONE ELSE: We can only hope that reading this helps you to be a better friend, parent, sibling or teacher to black girls living through what we did. It's time we stepped away from seeing this as a problem that black people are charged with solving on their own. It's a collective effort. And everyone has a role to play. Featuring honest conversations with students past and present, Taking Up Space goes beyond the buzzwords of diversity and inclusion and explores what those words truly mean for young black girls today.

#Merky Books was set up by publishers Penguin Random House and Stormzy in June 2018 to find and publish the best writers of a new generation and to publish the stories that are not being heard. #Merky Books aims to open up the world of publishing, and this year has launched a New Writer's Prize and will soon be launching a #Merky Books traineeship. 'I know too many talented writers that don't always have an outlet or a means to get their work seen, and hopefully #Merky Books can now be a reference point for them to say "I can be an author", and for that to be a realistic and achievable goal... Reading and writing as a kid were integral to where I am today and I, from the bottom of my heart, cannot wait to hear your stories and get them out into the big wide world.' STORMZY

The Cambridge Advanced Learner's Dictionary gives the vital support which advanced students need, especially with the essential skills: reading, writing, listening and speaking. In the book: \* 170,000 words, phrases and examples \* New words: so your English stays up-to-date \* Colour headwords: so you can find the word you are looking for quickly \* Idiom Finder \* 200 'Common Learner Error' notes show how to avoid common mistakes \* 25,000 collocations show the way words work together \* Colour pictures: 16 full page colour pictures On the CD-ROM: \* Sound: recordings in British and American English, plus practice tools to help improve pronunciation \* UNIQUE! Smart Thesaurus helps you choose the right word \* QUICKfind looks up words for you while you are working or reading on screen \* UNIQUE! SUPERwrite gives on screen help with grammar, spelling and collocation when you are writing \* Hundreds of interactive exercises

The Cambridge Academic Content Dictionary defines the vocabulary students need to succeed in high school and beyond. Entries cover more than 2,000 content-area vocabulary items, as well as general academic vocabulary and full coverage of everyday words and phrases. The CD-ROM lets students search for vocabulary by subject area, includes audio of all entry words, offers word family and frequency information, and has a thesaurus and instant lookup feature. The CD-ROM is compatible with Windows XP/Vista and with Mac OSX 10.4 (32-bit only).

Seemingly universal geometric forms unite the flow systems of engineering and nature. For example, tree-shaped flows can be seen in computers, lungs, dendritic crystals, urban street

patterns, and communication links. In this groundbreaking book, Adrian Bejan considers the design and optimization of engineered systems and discovers a deterministic principle of the generation of geometric form in natural systems. Shape and structure spring from the struggle for better performance in both engineering and nature. This idea is the basis of the new constructal theory: the objective and constraints principle used in engineering is the same mechanism from which the geometry in natural flow systems emerges. From heat exchangers to river channels, the book draws many parallels between the engineered and the natural world. Among the topics covered are mechanical structure, thermal structure, heat trees, ducts and rivers, turbulent structure, and structure in transportation and economics. The numerous illustrations, examples, and homework problems in every chapter make this an ideal text for engineering design courses. Its provocative ideas will also appeal to a broad range of readers in engineering, natural sciences, economics, and business.

This book was the first handbook where the world's foremost 'experts on expertise' reviewed our scientific knowledge on expertise and expert performance and how experts may differ from non-experts in terms of their development, training, reasoning, knowledge, social support, and innate talent. Methods are described for the study of experts' knowledge and their performance of representative tasks from their domain of expertise. The development of expertise is also studied by retrospective interviews and the daily lives of experts are studied with diaries. In 15 major domains of expertise, the leading researchers summarize our knowledge on the structure and acquisition of expert skill and knowledge and discuss future prospects. General issues that cut across most domains are reviewed in chapters on various aspects of expertise such as general and practical intelligence, differences in brain activity, self-regulated learning, deliberate practice, aging, knowledge management, and creativity.

This intriguing anthropological study investigates how the boatmen of Banaras have repositioned themselves within the traditional social organization and used their privileged position on the river to contest upper-caste and state domination. The author examines the evolution of the boatmen community, drawing on a variety of sources to illuminate the cultural politics of social and economic inequality in contemporary India. *Life on the Ganga: Boatmen and the Ritual Economy of Banaras* offers insight into recent debates about the cultural and historical forms of social practice and resistance at the juncture between tradition and the global economy, and will therefore appeal not only to anthropologists, but to anyone working in the field of development studies, globalization, religion, politics and cultural studies.

More than fifty specialists have contributed to this new edition of volume 4 of *The Cambridge Bibliography of English Literature*. The design of the original work has established itself so firmly as a workable solution to the immense problems of analysis, articulation and coordination that it has been retained in all its essentials for the new edition. The task of the new contributors has been to revise and integrate the lists of 1940 and 1957, to add materials of the following decade, to correct and refine the bibliographical details already available, and to re-shape the whole according to a new series of conventions devised to give greater clarity and consistency to the entries.

Why are people loyal? How do groups form and how do they create incentives for their members to abide by group norms? Until now, economics has only been able to partially answer these questions. In this groundbreaking work, Paul Frijters presents a new unified theory of human behaviour. To do so, he incorporates comprehensive yet tractable definitions of love and power, and the dynamics of groups and networks, into the traditional mainstream economic view. The result is an enhanced view of human societies that nevertheless retains the pursuit of self-interest at its core. This book provides a digestible but comprehensive theory of our socioeconomic system, which condenses its immense complexity into simplified representations. The result both illuminates humanity's history and suggests ways forward for policies today, in areas as diverse as poverty reduction and tax compliance.

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