

## *Second Edition Cambridge La Org*

Cellular solids include engineering honeycombs and foams (which can now be made from polymers, metals, ceramics, and composites) as well as natural materials, such as wood, cork, and cancellous bone. This new edition of a classic work details current understanding of the structure and mechanical behavior of cellular materials, and the ways in which they can be exploited in engineering design. Gibson and Ashby have brought the book completely up to date, including new work on processing of metallic and ceramic foams and on the mechanical, electrical and acoustic properties of cellular solids. Data for commercially available foams are presented on material property charts; two new case studies show how the charts are used for selection of foams in engineering design. Over 150 references appearing in the literature since the publication of the first edition are cited. It will be of interest to graduate students and researchers in materials science and engineering.

Palmer investigates the category of modality, drawing on a wealth of examples from a wide variety of languages.

This book describes the most important kinds of texts in English and introduces the methodological techniques used to analyse them. Three analytical approaches are introduced and compared, describing a wide range of texts from the perspectives of register, genre and style. The primary focus of the book is on the analysis of registers. Part 1 introduces an analytical framework for studying registers, genre conventions, and styles. Part 2 provides detailed descriptions of particular text varieties in English, including spoken interpersonal varieties (conversation, university office hours, service encounters), written varieties (newspapers, academic prose, fiction), and emerging electronic varieties (e-mail, internet forums, text messages). Finally, Part 3 introduces advanced analytical approaches using corpora, and discusses theoretical concerns, such as the place of register studies in linguistics, and practical applications of register analysis. Each chapter ends with three types of activities: reflection and review activities, analysis activities, and larger project ideas.

A central theme throughout the impressive series of philosophical books and articles Stephen Toulmin has published since 1948 is the way in which assertions and opinions concerning all sorts of topics, brought up in everyday life or in academic research, can be rationally justified. Is there one universal system of norms, by which all sorts of arguments in all sorts of fields must be judged, or must each sort of argument be judged according to its own norms? In *The Uses of Argument* (1958) Toulmin sets out his views on these questions for the first time. In spite of initial criticisms from logicians and fellow philosophers, *The Uses of Argument* has been an enduring source of inspiration and discussion to students of argumentation from all kinds of disciplinary background for more than forty years.

Regions and People

The Cambridge Handbook of Expertise and Expert Performance

Medieval Military Technology, Second Edition

Magic in the Middle Ages

Random Graphs

Give Constructions across Languages

It is well known that George Eliot's intelligence and her wide knowledge of literature, history, philosophy and religion shaped her fiction, but until now no study has followed the development of her thinking through her whole career. This intellectual biography traces the course of that development from her initial Christian culture, through her loss of faith and working out of a humanistic and cautiously progressive world view, to the thought-provoking achievements of her novels. It focuses on her responses to her reading in her essays, reviews and letters as well as in the historical pictures of Romola, the political implications of Felix Holt, the comprehensive view of English society in *Middlemarch*, and the visionary account of personal inspiration in *Daniel Deronda*. This portrait of a major Victorian intellectual is an important addition to our understanding of Eliot's mind and works, as well as of her place in nineteenth-century British culture.

Diachronic linguistics has been experiencing a strong revival during the last few decades, since an increasing number of researchers have assumed that evolutionary and historical factors must be considered to properly understand how natural languages work. This book offers new data and insights on some of the research lines which are currently being developed within the framework of diachronic language research. The papers brought together in this volume are characterized both by their originality and by their methodological diversity; the reader will thus find herein theoretical as well as empirical works, undertaken from various perspectives of analysis (diachronic cognitive semantics, grammaticalization theory, discursive traditions, historical phraseology, etc.). The final outcome is an eclectic volume which offers valuable information for every reader, regardless of whether they are experienced linguists or junior researchers willing to know the latest epistemological advances in this discipline.

This book describes the new generation of discrete choice methods, focusing on the many advances that are made possible by simulation. Researchers use these statistical methods to examine the choices that consumers, households, firms, and other agents make. Each of the major models is covered: logit, generalized extreme value, or GEV (including nested and cross-nested logits), probit, and mixed logit, plus a variety of specifications that build on these basics. Simulation-assisted estimation procedures are investigated and compared, including maximum simulated likelihood, method of simulated moments, and method of simulated scores. Procedures for drawing from densities are described, including variance reduction techniques such as antithetics and Halton draws. Recent advances in Bayesian procedures are explored, including the use of the Metropolis-Hastings algorithm and its variant Gibbs sampling. The second edition adds chapters on endogeneity and expectation-maximization (EM) algorithms. No other book incorporates all these fields, which have arisen in the past 25 years. The procedures are

applicable in many fields, including energy, transportation, environmental studies, health, labor, and marketing.

An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. “Written by three experts in the field, Deep Learning is the only comprehensive book on the subject.” –Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

Property in the Body

Fundamentals and Large-scale Circulation

America's Forgotten Pandemic

Approaches and Methods in Language Teaching

English as a Global Language

Discrete Choice Methods with Simulation

Tallinn Manual 2.0 expands on the highly influential first edition by extending its coverage of the international law governing cyber operations to peacetime legal regimes. The product of a three-year follow-on project by a new group of twenty renowned international law experts, it addresses such topics as sovereignty, state responsibility, human rights, and the law of air, space, and the sea. Tallinn Manual 2.0 identifies 154 'black letter' rules governing cyber operations and provides extensive commentary on each rule. Although Tallinn Manual 2.0 represents the views of the experts in their personal capacity, the project benefitted from the unofficial input of many states and over fifty peer reviewers.

David Crystal's classic English as a Global Language considers the history, present status and future of the English language, focusing on its role as the leading international language. English has been deemed the most 'successful' language ever, with 1500 million speakers internationally, presenting a difficult task to those who wish to investigate it in its entirety. However, Crystal explores the subject in a measured but engaging way, always backing up observations with facts and figures. Written in a detailed and fascinating manner, this is a book written by an expert both for specialists in the subject and for general readers interested in the English language.

New developments in biotechnology radically alter our relationship with our bodies. Body tissues can now be used for commercial purposes, while external objects, such as pacemakers, can become part of the body. Property in the Body: Feminist Perspectives transcends the everyday responses to such developments, suggesting that what we most fear is the feminisation of the body. We fear our bodies are becoming objects of property, turning us into things rather than persons. This book evaluates how well-grounded this fear is, and suggests innovative models of regulating what has been called 'the new Gold Rush' in human tissue. This is an up-to-date and wide-ranging synthesis of market developments in body tissue, bringing together bioethics, feminist theory and lessons from countries that have resisted commercialisation of the body, in a theoretically sophisticated and practically significant approach.

Provides extra classroom practice, homework, or independent learning when in-class participation is not possible. Feature two pages of exercises for each lesson in the student book, grammar charts and an answer key, practice reading and interpreting real-life documents.

Feminist Perspectives

Changes in Meaning and Function

George Eliot's Intellectual Life

The Botany of Mangroves

Introduction to Information Retrieval

Elgar Encyclopedia of Comparative Law, Second Edition

This new edition brings this study of inner-city life up to date.

Health psychology is a rapidly expanding discipline at the interface of psychology and clinical medicine. This new edition is fully reworked and revised, offering an entirely up-to-date, comprehensive, accessible, one-stop resource for clinical psychologists, mental health professionals and specialists in health-related matters. There are two new editors: Susan Ayers from the University of Sussex and Kenneth Wallston from Vanderbilt University Medical Center. The prestigious editorial team and their international, interdisciplinary cast of authors have reconceptualised their much-acclaimed handbook. The book is now in two parts: part I covers psychological aspects of health and illness, assessments, interventions and healthcare practice. Part II covers medical matters listed in alphabetical order. Among the many new topics added are: diet and health, ethnicity and health, clinical interviewing, mood assessment, communicating risk, medical interviewing, diagnostic procedures, organ donation, IVF, MMR, HRT, sleep disorders, skin disorders, depression and anxiety disorders.

City governments are rapidly becoming society's problem solvers. As Sara Hughes shows, nowhere is this more evident than in New York City, Los Angeles, and Toronto, where the cities' governments are taking on the challenge of addressing climate change. Repowering Cities focuses on the specific issue of reducing urban greenhouse gas (GHG) emissions, and develops a new framework for distinguishing

analytically and empirically the policy agendas city governments develop for reducing GHG emissions, the governing strategies they use to implement these agendas, and the direct and catalytic means by which they contribute to climate change mitigation. Hughes uses her framework to assess the successes and failures experienced in New York City, Los Angeles, and Toronto as those agenda-setting cities have addressed climate change. She then identifies strategies for moving from incremental to transformative change by pinpointing governing strategies able to mobilize the needed resources and actors, build participatory institutions, create capacity for climate-smart governance, and broaden coalitions for urban climate change policy.

Comprehensive and definitive review of the field of creativity.

The Cambridge Handbook of Personal Relationships

Latin America, Second Edition

Atmospheric and Oceanic Fluid Dynamics

Cambridge Advanced Learner's Dictionary KLETT VERSION

Rethinking literary realism in comparative perspectives. Volume II: Pathways through realism

Multimedia Learning

*This cognitive contrastive study of ten languages (Chinese, Dalabon, English, French, Spanish, Romanian, Kurdish, Khmer, Polish, Tibetan) focuses on the concept of giving from six main points of view, namely argument structure, lexical semantics and event structure, role marking in the three argument construction and in other constructions, lexicalization, grammaticalization and constructionalization of the verb from a cognitive construction grammar point of view, and central and extended meanings. It is proposed that a continuum approach to grammar and lexicon is needed in order to describe the typological and historical facts. The volume argues for a concrete and abstract transfer 'cluster model' involving coverage of lexical and grammatical extension or bleaching phenomena and that the semantic extensions (metaphorical and otherwise) exploit various portions of this schema. The volume is deeply anchored in the Cognitive Construction Grammar theoretical movement, and proposes analyses of constructional phenomena to illustrate a grammar to lexicon continuum, in synchrony and diachrony: language change, grammaticalization chains, constructionalization analysis, and an invariant hypothesis of giving as a basic activity in human cognition.*

*Few literary phenomena are as elusive and yet as persistent as realism. While it responds to the perennial impulse to use literature to reflect on experience, it also designates a specific set of literary and artistic practices that emerged in response to Western modernity. Landscapes of Realism is a two-volume collaborative interdisciplinary investigation of this vast territory, bringing together leading-edge new criticism on the realist paradigms that were first articulated in nineteenth-century Europe but have since gone on globally to transform the literary landscape. Tracing the manifold ways in which these paradigms are developed, discussed and contested across time, space, cultures and media, this second volume shows in its four core essays and twenty-four case studies four major pathways through the landscapes of realism: The psychological pathways focusing on emotion and memory, the referential pathways highlighting the role of materiality, the formal pathways demonstrating the dynamics of formal experiments, and the geographical pathways exploring the worlding of realism through the encounters between European and non-European languages from the nineteenth century to the present. This volume is part of a book set which can be ordered at a special discount:*

*With the field of personal relationships having grown dramatically in the past quarter century, The Cambridge Handbook of Personal Relationships, Second Edition serves as a benchmark of the current state of scholarship, synthesizing the extant theoretical and empirical literature, tracing its historical roots, and making recommendations for future directions. Written by internationally known experts from key disciplines, the Handbook addresses both fundamental questions and cutting-edge concerns. This second edition has been thoroughly updated to reflect recent developments in analytical techniques, shifts in theoretical emphases, and an increased attention to social processes. New chapters include the Neuroscience of Salutary Close Relationships; Self-Disclosure in Relationships; Acceptance, Rejection, and the Quest for Relational Value; Relationships and Physical Health; Personal Relationships and Technology in the Digital Age; and Promoting Healthy Relationships. This compendium of state-of-the-art research and theory on personal relationships will be of great value to researchers, graduate students, and practitioners.*

*A concise, descriptive overview of mangrove plants, with emphasis on individual species.*

*Handbook of Creativity*

*Introduction to Petroleum Seismology, second edition*

*Global Ecopolitics*

*In Search of Respect*

*Structure and Properties*

*The Uses of Argument*

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.

Captivating Discovery Education(TM) video and stimulating global topics spark curiosity and engage teenage learners.

The second edition of this acclaimed, accessible textbook brings the subject of sedimentation and erosion up-to-date, providing an excellent primer on both fundamental concepts of sediment-transport theory and methods for practical applications. The structure of the first edition is essentially unchanged, but all the chapters have been updated, with several chapters reworked and expanded significantly. Examples of the new additions include the concept of added mass, the Modified Einstein Procedure, sediment transport by size fractions, sediment transport of sediment mixtures, and new solutions to the Einstein Integrals. Many new examples and exercises have been added. Erosion and Sedimentation is an essential textbook on the topic for students in civil and environmental engineering and the geosciences, and also as a handbook for researchers and professionals in engineering, the geosciences and

the water sciences.

The new edition of a widely used, comprehensive graduate-level text and professional reference covering all aspects of labor economics, with substantial new material. This landmark graduate-level text combines depth and breadth of coverage with recent, cutting-edge work in all the major areas of modern labor economics. Its command of the literature and its coverage of the latest theoretical, methodological, and empirical developments make it also a valuable resource for practicing labor economists. This second edition has been substantially updated and augmented. It incorporates examples drawn from many countries, and it presents empirical methods using contributions that have proved to be milestones in labor economics. The data and codes of these research publications, as well as numerous tables and figures describing the functioning of labor markets, are all available on a dedicated website ([www.labor-economics.org](http://www.labor-economics.org)), along with slides that can be used as course aids and a discussion forum. This edition devotes more space to the analysis of public policy and the levers available to policy makers, with new chapters on such topics as discrimination, globalization, income redistribution, employment protection, and the minimum wage or labor market programs for the unemployed. Theories are explained on the basis of the simplest possible models, which are in turn related to empirical results. Mathematical appendixes provide a toolkit for understanding the models.

Studies in historical linguistics with a focus on Spanish

Eyes Open Level 3 Student's Book

The Influenza of 1918

Tallinn Manual 2.0 on the International Law Applicable to Cyber Operations

Governing Climate Change Mitigation in New York City, Los Angeles, and Toronto

Ventures Level 3 Workbook

An authoritative overview of Latin America's human geography and regional complexity. It traces Latin America's historical developments while revealing the diversity of its people and places. Coverage encompasses cultural history, environment and physical geography, urban development, agriculture and land use, social and economic processes, and the contemporary patterns of Latin American diaspora. --

Publisher description

In this book, some of the world's foremost 'experts on expertise' provide scientific knowledge on expertise and expert performance.

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

This is a revised and updated version of the classic first edition.

Register, Genre, and Style

Erosion and Sedimentation

The Neural Crest

Cellular Solids

The Cambridge Handbook of Acculturation Psychology

This new edition surveys the major approaches and methods in language teaching.

Between August 1918 and March 1919 the Spanish influenza spread worldwide, claiming over 25 million lives - more people than perished in the fighting of the First World War. It proved fatal to at least a half-million Americans. Yet, the Spanish flu pandemic is largely forgotten today. In this vivid narrative, Alfred W. Crosby recounts the course of the pandemic during the panic-stricken months of 1918 and 1919, measures its impact on American society, and probes the curious loss of national memory of this cataclysmic event. This 2003 edition includes a preface discussing the then recent outbreaks of diseases, including the Asian flu and the SARS epidemic.

First published in 1992, Medieval Military Technology has become the definitive book in its field, garnering much praise and a large readership. This thorough update of a classic book, regarded as both an excellent overview and an important piece of scholarship, includes fully revised content, new sections on the use of horses, handguns, incendiary weapons, and siege engines, and eighteen new illustrations. The four key organizing sections of the book still remain: arms and armor, artillery, fortifications, and warships. Throughout, the authors connect these technologies to broader themes and developments in medieval society as well as to current scholarly and curatorial controversies.

Introduction to Petroleum Seismology, second edition (SEG Investigations in Geophysics Series No. 12) provides the theoretical and practical foundation for tackling present and future challenges of petroleum seismology especially those related to seismic survey designs, seismic data acquisition, seismic and EM

modeling, seismic imaging, microseismicity, and reservoir characterization and monitoring. All of the chapters from the first edition have been improved and/or expanded. In addition, twelve new chapters have been added. These new chapters expand topics which were only alluded to in the first edition: sparsity representation, sparsity and nonlinear optimization, near-simultaneous multiple-shooting acquisition and processing, nonuniform wavefield sampling, automated modeling, elastic-electromagnetic mathematical equivalences, and microseismicity in the context of hydraulic fracturing. Another major modification in this edition is that each chapter contains analytical problems as well as computational problems. These problems include MatLab codes, which may help readers improve their understanding of and intuition about these materials. The comprehensiveness of this book makes it a suitable text for undergraduate and graduate courses that target geophysicists and engineers as well as a guide and reference work for researchers and professionals in academia and in the petroleum industry.

Rethinking literary realism in comparative perspectives. Volume I: Mapping realism

Deep Learning

Repowering Cities

Mood and Modality

Labor Economics, second edition

Selling Crack in El Barrio

A 1999 edition of a highly successful book describing comprehensive research in the study of the neural crest.

A fascinating study of natural and demonic magic within the broad context of medieval culture.

Acclaim for the first edition: "This is a very important and immense book. . . The Elgar Encyclopedia of Comparative Law is a treasure-trove of honed knowledge of the laws of many countries. It is dipping into, time and time again. It is worth every penny and there is not another as comprehensive in its coverage as Elgar's. I highly recommend the Elgar Encyclopedia of Comparative Law to a

This is a very important book that should be sitting in every university law school library." \_ Sally Ramage, *The Criminal Lawyer* Containing newly updated versions of existing entries and adding several new entries, this second edition of the Elgar Encyclopedia of Comparative Law takes stock of present-day comparative law scholarship. Written by leading authorities in their respective fields, the contributors cover and combine not only questions regarding the methodology of comparative law, but also specific areas of law (such as administrative law and criminal law) and specific topics (such as human rights and international law) for consideration). In addition, the Encyclopedia contains reports on a selected set of countries' legal systems and, as a whole, presents an overview of the current state of affairs. Providing its readers with a valuable reference, as well as stimulus for further research, this volume is an indispensable tool for anyone interested in comparative law, especially academics, students and practitioners.

This book introduces students to the complex policy dilemmas related to solving global environmental problems today.

Crisis, Governance, and Justice, Second Edition

Cambridge Handbook of Psychology, Health and Medicine

Landscapes of Realism

Although verbal learning offers a powerful tool, Mayer explores ways of going beyond the purely verbal. Recent advances in graphics technology and information technology have prompted new efforts to understand the potential of multimedia learning as a means of promoting human understanding. In this second edition, Mayer includes double the number of experimental comparisons, 6 new principles of multimedia learning, segmenting, pertaining, personalization, voice and image principles. The 12 principles of multimedia instructional design have been reorganized into three sections - reducing extraneous processing, essential processing and fostering generative processing. Finally an indication of the maturity of the field is that the second edition highlights boundary conditions for each principle research-based when a principle is likely or not likely to apply. The boundary conditions are interpreted in terms of the cognitive theory of multimedia learning, and help to enrich theories of multimedia learning.

Fluid dynamics is fundamental to our understanding of the atmosphere and oceans. Although many of the same principles of fluid dynamics apply to both the atmosphere and oceans, textbooks tend to focus on the atmosphere, the ocean, or the theory of geophysical fluid dynamics (GFD). This textbook provides a comprehensive unified treatment of atmospheric and oceanic fluid dynamics. The book includes the fundamentals of geophysical fluid dynamics, including rotation and stratification, vorticity and potential vorticity, and scaling and approximations. It discusses baroclinic and barotropic instabilities, wave interactions and turbulence, and the general circulation of the atmosphere and ocean. Student problems and exercises are included at the end of each chapter. *Atmospheric and Oceanic Fluid Dynamics: Fundamentals and Large-Scale Circulation* will be an invaluable graduate textbook on advanced courses in GFD, meteorology, atmospheric science and oceanography, and an excellent review volume for researchers. Additional resources are available at [www.cambridge.org/9780521849692](http://www.cambridge.org/9780521849692).

In recent years the topic of acculturation has evolved from a relatively minor research area to one of the most researched subjects in the field of cross-cultural psychology. This edited handbook systemizes the current state of the art by exploring the broad international scope of acculturation. A collection of the world's leading experts in the field review the various contexts for acculturation, theories, the groups and individuals undergoing acculturation (immigrants, refugees, indigenous people, expatriates, students and tourists) and discuss how current knowledge can be applied to make the acculturation process and its outcome more manageable and profitable. Building on the theoretical and methodological framework of cross-cultural psychology, the authors focus specifically on the issues that arise when people from one culture move to another culture and the reciprocal adjustments, tensions and benefits involved.

Few literary phenomena are as elusive and yet as persistent as realism. While it responds to the perennial impulse to use literature to reflect on experience, it also designates a specific set of literary practices that emerged in response to Western modernity. *Landscapes of Realism* is a two-volume collaborative interdisciplinary exploration of this vast territory, bringing together leading-edge realist paradigms that were first articulated in nineteenth-century Europe but have since gone on globally to transform the literary landscape. Tracing the manifold ways in which these paradigms have been discussed and contested across time, space, cultures and media, this first volume tackles in its five core essays and twenty-five case studies such questions as why realism emerged when it did, how it developed such a transformative dynamic across languages, to what extent realist poetics remain central to art and popular culture after 1900, and how generally to reassess realism from a two-volume comparative perspective.