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Now available in a revised and updated version, this book examines Western warfare from antiquity to the present day.

A comprehensive introduction to the tools, techniques and applications of convex optimization.

This book describes the next generation of industry—Industry 4.0—and how it holds the promise of increased flexibility in manufacturing, along with automation, better quality, and improved productivity. The authors discuss how it thus enables companies to cope with the challenges of producing increasingly individualized products with a short lead-time to market and higher quality. The authors posit that intelligent cloud services and resource sharing play an important role in Industry 4.0 anticipated Fourth Industrial Revolution. This book serves the different issues and challenges in cloud resource management CRM techniques with proper propped solution for IT organizations. The book features chapters based on the characteristics of autonomic computing with its applicability in CRM. Each chapter features the techniques and analysis of each mechanism to make better resource management in cloud.

Ian Roberts offers a stimulating introduction to our greatest gift as a species: our capacity for articulate language. We are mostly as blissfully unaware of the intricacies of the structure of language as fish are of the water they swim in. We live in a mental ocean of nouns, verbs, quantifiers, morphemes, vowels and other rich, strange and deeply fascinating linguistic objects. This book introduces the reader to this amazing world. Offering a thought-provoking and accessible introduction to the main discoveries and theories about language, the book is aimed at general readers and undergraduates who are curious about linguistics and language. Written in a lively and direct style, technical terms are carefully introduced and explained and the book includes a full glossary. The book covers all the central areas of linguistics, including phonetics, phonology, morphology, syntax, semantics and pragmatics, as well as historical linguistics, sociolinguistics and psycholinguistics.

This second edition updates a course which has proven to be a perfect fit for classes the world over. The Teacher's Resource Book contains the content for the A and B Combos for Starter level in one volume. All unit numbers and page references correspond to the Combos. It contains extra photocopiable grammar and communication activities and full pages of teaching tips and ideas specially written by methodology expert, Mario Rinvoluceri. A Combo Testmaker Audio CD/CD-ROM which allows teachers to create and edit their own tests is also available separately, as is Classware for the full edition which integrates the Student's Book, class audio and video.

New Interchange is a multi-level series for adult and young-adult learners of English from the beginning to the high-intermediate level. The Workbook has six-page units that follow the same sequence as the Student's Book. It has

interesting grammar, vocabulary, and writing activities, appropriate for classwork or homework. It also has numerous reading passages that recycle and review language from previous units.

A complete course in English for Academic Purposes at intermediate level upwards.

This book was inspired by God. It brings God's activities on behalf of Earth's citizens from the shadows of history into illumination. God's mastery over the universe is brought to life from the Big Bang to modern times. A plausible theory is put forth regarding how God has employed His tools (only recently discovered but little understood by scientists), dark matter and dark energy, to create and sustain the universe as we know it. God's book, this book, is a compliment to His Bible from which it differs in that, for today's intelligent humans, it explains how God advanced creation and evolution. After summarizing key portions of the Bible, this book focuses sequentially upon God's activities in Roman times, the Dark Ages, Medieval times, Renaissance times, Colonial times, and the rise of the United States through the big wars up to modern times. God led us through every period or we would not have reached these times as we are today. God used the West to advance the entire planet as all Earth was afforded the opportunity to know Jesus Christ. God's unseen struggles are summarized in the final chapter but there are much more in depth presentations of God's tools, dark matter and dark energy, containing preliminary information on how to develop necessary communications to initiate their use by mankind to save Earth. God sees we are in imminent danger of flooding coastal areas worldwide because of the greenhouse gasses resulting from long over use of fossil fuels and subsequent melting of glaciers and icecaps. The author posits that by leading us through the millennia to our current level of understanding, and through this very book, God has prepared us to partner with Him to save our civilization from devastation.

New Interchange is a complete revision of Interchange, one of the world's most popular and successful English courses. New Interchange is a multi-level course for adults and young adult learners of English from beginning to high-intermediate level. Level Three builds on the foundations for accurate and fluent communication established in Level 2, extending grammatical, lexical, and functional skills. New Interchange teaches students to use English for everyday situations and purposes related to school, work, social life, and leisure. The underlying philosophy is that language learning is more rewarding, meaningful, and effective when used for authentic communication.

Geometry Cambridge University Press

An improved, larger-format edition of the Cambridge School Shakespeare plays, extensively rewritten, expanded and produced in an attractive new design. An active approach to classroom Shakespeare enables students to inhabit Shakespeare's imaginative world in accessible and creative ways. Students are encouraged to share Shakespeare's love of language, interest in character and sense of theatre. Substantially revised and extended in full colour, classroom activities are thematically organised in distinctive 'Stagecraft', 'Write about it', 'Language in the play', 'Characters' and 'Themes' features. Extended glossaries are aligned with the play text for easy reference. Expanded endnotes include extensive essay-writing

guidance for 'Macbeth' and Shakespeare. Includes rich, exciting colour photos of performances of 'Macbeth' from around the world.

This second edition updates a course which has proven to be a perfect fit for classes the world over. The Teacher's Resource Book contains the content for the A and B Combos for level 3 in one volume. All unit numbers and page references correspond to the Combos. It contains extra photocopiable grammar and communication activities and full pages of teaching tips and ideas specially written by methodology expert, Mario Rinvolucri. A Combo Testmaker Audio CD and CD-ROM which allows teachers to create and edit their own tests is also available separately, as is Classware for the full edition which integrates the Student's Book, class audio and video. 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).

A three-level (B1+ to C1) integrated skills course for higher education students at university or on foundation courses. Designed specifically for students preparing for university, this integrated skills course develops language and real academic skills essential for successful university studies across disciplines. With authentic lectures and seminars, language informed by the Cambridge Academic Corpus and Academic Word Lists, the course guarantees the English that students learn is up to date and relevant to them. The Teacher's Book provides extensive teacher support including teaching notes and additional photocopiable worksheets for the classroom.

A systematic treatment of the physics of thermotropic liquid crystals.

An innovative, new multi-level course for the university and in-company sector. Business Advantage is the course for tomorrow's business leaders. Based on a unique syllabus that combines current business theory, business in practice and business skills - all presented using authentic, expert input - the course contains specific business-related outcomes that make the material highly relevant and engaging. The Business Advantage Intermediate level books include input from the following leading institutions and organisations: the Cambridge Judge Business School, IKEA, Emirates NBD, Isuzu and Unilever - to name but a few. The Student's Book comes with a free DVD of video case studies.

A complete course in applied macroeconomics at the intermediate level that emphasizes the application of economic theory to real-world data and policy.

Connect, First Edition, is a fun, 4-level, multi-skills American English course especially written and designed for young adolescents. The comprehensive, interleaved Teacher's Edition 3 provides teaching support for Student's Book 3, which is an intermediate-level text for students aged 11-15. Teacher's Edition 3 provides step-by-step instructions to present, practice, and review all new language. It also features the audio scripts, optional exercises, and informative notes. The back of Teacher's Edition 3 contains a rich source of support materials, many of which are copiable.

This lucid and captivating book takes the reader back to the early history of all the sciences, starting from antiquity and ending roughly at the time of Newton — covering the period which can legitimately be called the “dawn” of the sciences. Each of the 24 chapters focuses on a particular and significant development in the evolution of science, and is connected in a coherent way to the others to yield a smooth, continuous narrative. The at-a-glance diagrams showing the “When” and “Where” give a brief summary of what was happening at the time, thereby providing the broader context of the scientific events highlighted in that chapter. Embellished with colourful photographs and illustrations, and “boxed” highlights scattered throughout the text, this book is a must-read for everyone interested in the history of science,

and how it shaped our world today.

Records show that the Chinese invented gunpowder in the 800s. By the 1200s they had unleashed the first weapons of war upon their unsuspecting neighbours. This extraordinarily ambitious book traces the history of that invention and its impact on the surrounding Asian world - Korea, Japan, South East Asia and South Asia - from the ninth through the twentieth century. As the book makes clear, the spread of war and its technology had devastating consequences on the political and cultural fabric of those early societies although each reacted very differently. The book, which is packed with information about military strategy, interregional warfare and the development of armaments, also engages with the major debates and challenges traditional thinking on Europe's contribution to military technology in Asia. Articulate and comprehensive, this book will be a welcome addition to the undergraduate classroom and to all those interested in Asian studies and military history.

Gives students further practice in academic study skills. Students analyse characteristics of written and spoken academic texts, develop awareness of academic culture and learn to avoid plagiarism. From essay organisation, taking notes, group discussion to writing references and paraphrasing texts.

There has been a dramatic proliferation of Islamic charities recently. While most are legitimate, considerable evidence reveals that others have more questionable intentions, and that funds have been diverted to support terrorist groups, such as al-Qaeda. The authors examine the contention through a detailed investigation of the charities involved, their financial intermediaries, and the terrorist organizations themselves. What they discover is that money from these charities has funded conflicts across the world, from the early days in Afghanistan, to subsequent terrorist activities in Asia, Africa, Palestine and, most recently, Europe and the United States.

The New Cambridge English Course is a four-level course for learners of English.

Easy and enjoyable to teach, Touchstone is packed with new and exciting ideas, offering a fresh approach to the teaching and learning of English.

A three-level (B1+ to C1) integrated skills course for higher education students at university or on foundation courses. The B1+ Intermediate Student's Book introduces students to the characteristics of written and spoken academic texts. Students are guided towards developing relevant strategies for setting study goals and approaching these texts. From asking for help, understanding essay questions to planning essay paragraphs and listening for gist and detail, students have a wealth of opportunities to practice all core academic skills. The course develops independent learning skills and critical thinking through 'Study Tips' sections and allows for personalisation of learning in the 'Focus on your subject' sections. Five lecture skills units provide authentic practice in listening to lectures and note-taking.

With the prevalence of smartphones, massive data storage, and search engines, we might think of today as the height of the information age. In reality, every era has faced its own challenges of storing, organizing, and accessing information. While they lacked digital devices, our ancestors, when faced with information overload, utilized some of the same techniques that underlie our modern interfaces: they visualized and spatialized data, tying it to the emotional and sensory spaces of memory, thereby turning their minds into a visual interface for accessing information. In *Excavating the Memory Palace*, Seth David Long mines the history of Europe's arts of memory to find the origins of today's data visualizations, unearthing how ancient constructions of cognitive pathways paved the way for modern technological interfaces. Looking to techniques like the memory palace, he finds the ways that information has been tied to sensory and visual experience, turning raw data into lucid knowledge. From the icons of smart phone screens to massive network graphs, Long shows us the ancestry of the cyberscape and unveils the history of memory as a creative act.

While there is enormous public interest in biodiversity, food sourcing, and sustainable

agriculture, romantic attachments to heirloom seeds and family farms have provoked misleading fantasies of an unrecoverable agrarian past. The reality, as Courtney Fullilove shows, is that seeds are inherently political objects transformed by the ways they are gathered, preserved, distributed, regenerated, and improved. In *The Profit of the Earth*, Fullilove unearths the history of American agricultural development and of seeds as tools and talismans put in its service. Organized into three thematic parts, *The Profit of the Earth* is a narrative history of the collection, circulation, and preservation of seeds. Fullilove begins with the political economy of agricultural improvement, recovering the efforts of the US Patent Office and the nascent US Department of Agriculture to import seeds and cuttings for free distribution to American farmers. She then turns to immigrant agricultural knowledge, exploring how public and private institutions attempting to boost midwestern wheat yields drew on the resources of willing and unwilling settlers. Last, she explores the impact of these cereal monocultures on biocultural diversity, chronicling a fin-de-siècle Ohio pharmacist's attempt to source Purple Coneflower from the diminishing prairie. Through these captivating narratives of improvisation, appropriation, and loss, Fullilove explores contradictions between ideologies of property rights and common use that persist in national and international development—ultimately challenging readers to rethink fantasies of global agriculture's past and future.

Legal Publishing in Antebellum America presents a history of the law book publishing and distribution industry in the United States. Part business history, part legal history, part history of information diffusion, M. H. Hoeflich shows how various developments in printing and bookbinding, the introduction of railroads, and the expansion of mail service contributed to the growth of the industry from an essentially local industry to a national industry. Furthermore, the book ties the spread of a particular approach to law, that is, the 'scientific approach', championed by Northeastern American jurists to the growth of law publishing and law book selling and shows that the two were critically intertwined.

Our planet is witnessing the sixth mass extinction of species. We are trying to tackle this crisis almost on a war footing, with all the trappings and machinery of combat - fences, guns, protected areas, and a suite of top-down laws and policies. But we haven't been able to stop the bleeding. This book argues that we will not stanch the flow unless we are willing to change our fundamental attitude towards people - people who live in our last remaining natural areas, whose lives depend on these ecosystems, and who are most affected - negatively - by policies and actions designed to protect biodiversity. To conserve our natural ecosystems and species, we must gain the support of local people. Yet, this is more easily said than done. How does one engage with local communities and garner their support for conservation? Unlike protected areas, whose governance and management have been formalised worldwide, there are no clear-cut frameworks for community-based conservation, no universally accepted guidelines. This book is an attempt to fill that void. It should interest all who care about preserving the earth's wild species and ecosystems. This book is founded on two decades of experience working with local communities to conserve the high mountain habitats of the endangered snow leopard in various parts of Asia - the Himalayas, Altai, Tien Shan, Hindu Kush, Pamirs, and the Tibetan Plateau. Drawing from this wealth of experience, Dr. Charu Mishra and his colleagues at the Snow Leopard Trust distil eight principles of community-based conservation, discussing them with candor and pragmatism. These 'PARTNERS Principles' are a blend of the practical and the ethical.

Connect, First Edition, is a fun, 4-level, multi-skills American English course especially written and designed for young adolescents. *Workbook 3* provides additional reading and writing reinforcement of *Student's Book 3*, an intermediate-level text for students aged 11-15. There is one *Workbook* page per *Student's Book* lesson. Answer keys are in *Teacher's Edition 3*. In the *Check Yourself* section, students assess their own performance. *Workbook 3* can be done at home or in class.

The fully revised edition of this 'classic' helps teachers give their learners the tools they need to express themselves through a range of stimulating drama contexts. This completely revised edition of the classic title *Drama Techniques* provides: *150 ideas for interesting and productive fluency practice *a large selection of drama-based techniques which focus learners' attention on communicative tasks or activities *techniques suitable for all levels *clear instructions for the teacher *advice on how to use the techniques in the classroom
 Volume Two begins in 1660 with the restoration of King Charles II to the throne and the reestablishment of the professional theater. It follows the far-reaching development of the form over more than two centuries to 1895.

This is an adaptation of *Essential Grammar in Use* for Thai elementary learners.

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 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.

The application and interpretation of the four Geneva Conventions of 1949 and their two Additional Protocols of 1977 have developed significantly in the seventy years since the International Committee of the Red Cross (ICRC) first published its Commentaries on these important humanitarian treaties. To promote a better understanding of, and respect for, this body of law, the ICRC commissioned a comprehensive update of its original Commentaries, of which this is the third volume. The Third Convention, relative to the treatment of prisoners of war and their protections, takes into account developments in the law and practice in the past seven decades to provide up-to-date interpretations of the Convention. The new Commentary has been reviewed by humanitarian law practitioners and academics from around the world. This new Commentary will be an essential tool for anyone involved with international humanitarian law.

'Moral Aims' brings together nine previously published essays that focus on the

significance of the social practice of morality for what we say as moral theorists, the plurality of moral aims that agents are trying to realize and that sometimes come into tension, and the special difficulties that conventionalised wrongdoing poses.

Publisher Description

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.

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