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Diabetes mellitus has become epidemic on a global scale, and millions of new cases are diagnosed every year. The epidemic of diabetes mellitus is expected to result in one of the steepest rises in human morbidity and mortality ever observed outside of wartime. Insulin resistance is a hallmark of pre-diabetes and type 2 diabetes mellitus, and is characterized by impaired insulin-signaling transduction. Authoritative and comprehensive, *Lipoproteins in Diabetes Mellitus* details the many changes wrought by insulin resistance and diabetes mellitus on lipid and lipoprotein metabolism. The book begins by summarizing the various techniques to measure lipoproteins and their subclasses. The mechanisms by which insulin resistance and diabetes mellitus increase risk for atherosclerosis, diabetic retinopathy, and diabetic nephropathy are then explored in detail. Finally, the effects of lifestyle modification and the results of clinical trials using established and investigational drugs are discussed. An invaluable contribution to the literature, *Lipoproteins in Diabetes Mellitus* is a comprehensive reference on the clinical and scientific aspects of lipoproteins in diabetes. It will have a long-lasting and significant effect on the medical management of people with diabetes.

New Syllabus Mathematics (NSM) is a series of textbooks specially designed to provide valuable learning experiences to engage the hearts and minds of students sitting for the GCE O-level examination in Mathematics. Included in the textbooks are Investigation, Class Discussion, Thinking Time, Journal Writing, Performance Task and Problems in Real-World Contexts to support the teaching and learning of Mathematics. Every chapter begins with a chapter opener which motivates students in learning the topic. Interesting stories about

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Mathematicians, real-life examples and applications are used to arouse students' interest and curiosity so that they can appreciate the beauty of Mathematics in their surroundings. The use of ICT helps students to visualise and manipulate mathematical objects more easily, thus making the learning of Mathematics more interactive. Ready-to-use interactive ICT templates are available at <http://www.shinglee.com.sg/StudentResources/>

Nine-year-old Helen is confused by the disappearance of her Jewish friend during the German occupation of Paris.

"This workbook will help your child learn addition sums beyond 20."--cover.

Part of the Collins Key English Skills series, this fun puzzle activity book provides plenty of English and literacy skills practice. The Collins Key English Skills series includes six titles designed to boost your child's literacy skills as they progress from Years 1-6.

This book explores the theoretical foundations of gamification in learning and education. It has become increasingly difficult to engage and motivate students. Gamification not only makes learning interesting, but also allows game players to solve problems and learn lessons through repeated attempts and failures. This "positive failure" can motivate students to attempt a difficult mission. Chapters in this volume cover topics such as the definition and characteristics of gamification, gamification in learning and education, theories, research on gamification, framework, strategy, and cases.

This is an introduction to linear algebra. The main part of the book features row operations and everything is done in terms of the row reduced echelon form and specific algorithms. At the end, the more abstract notions of vector spaces and linear transformations on vector spaces are presented. However, this is intended to be a first course in linear algebra for students who

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are sophomores or juniors who have had a course in one variable calculus and a reasonable background in college algebra. I have given complete proofs of all the fundamental ideas, but some topics such as Markov matrices are not complete in this book but receive a plausible introduction. The book contains a complete treatment of determinants and a simple proof of the Cayley Hamilton theorem although these are optional topics. The Jordan form is presented as an appendix. I see this theorem as the beginning of more advanced topics in linear algebra and not really part of a beginning linear algebra course. There are extensions of many of the topics of this book in my on line book. I have also not emphasized that linear algebra can be carried out with any field although there is an optional section on this topic, most of the book being devoted to either the real numbers or the complex numbers. It seems to me this is a reasonable specialization for a first course in linear algebra.

This book honours the outstanding contributions of Vladimir Vapnik, a rare example of a scientist for whom the following statements hold true simultaneously: his work led to the inception of a new field of research, the theory of statistical learning and empirical inference; he has lived to see the field blossom; and he is still as active as ever. He started analyzing learning algorithms in the 1960s and he invented the first version of the generalized portrait algorithm. He later developed one of the most successful methods in machine learning, the support vector machine (SVM) – more than just an algorithm, this was a new approach to learning problems, pioneering the use of functional analysis and convex optimization in machine learning. Part I of this book contains three chapters describing and witnessing some of Vladimir Vapnik's contributions to science. In the first chapter, Léon Bottou discusses the seminal paper published in 1968 by Vapnik and Chervonenkis that lay the foundations of

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statistical learning theory, and the second chapter is an English-language translation of that original paper. In the third chapter, Alexey Chervonenkis presents a first-hand account of the early history of SVMs and valuable insights into the first steps in the development of the SVM in the framework of the generalised portrait method. The remaining chapters, by leading scientists in domains such as statistics, theoretical computer science, and mathematics, address substantial topics in the theory and practice of statistical learning theory, including SVMs and other kernel-based methods, boosting, PAC-Bayesian theory, online and transductive learning, loss functions, learnable function classes, notions of complexity for function classes, multitask learning, and hypothesis selection. These contributions include historical and context notes, short surveys, and comments on future research directions. This book will be of interest to researchers, engineers, and graduate students engaged with all aspects of statistical learning.

What is Business English? The term “ Business English ” can have different meaning for different people. For some, it focuses on vocabulary and topics used in the worlds of business, trade, finance, and international relations. For others it refers to the communication skills used in the workplace, and focuses on the language and skills needed for typical business communication such as presentations, negotiations, meetings, socializing, correspondence, report writing, and a systematic approach. Have you ever wondered how you can improve business writing such as proposal, presentation drafts, emails, or report?

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Do you want to stop making avoidable mistakes during your business speeches or are you having challenges speaking professionally? If you answer yes to these questions, then this book will greatly enhance the way you Speak and Write at workplaces or in office environments. In this book, You will be learning how to communicate effectively in English in a professional context. You will be expanding your English vocabulary, improve your ability to write and speak in both social and professional interactions, and learn terminology and skills that you can apply to business negotiations, telephone conversations, written reports, emails, and presentations. This book is written to bridge the gap between the general English and the specialized business English that you need for career advancement. You will be learning how to negotiate your potential clients and learning how to convey ideas to your colleagues or business executives in a much more effective way. New terms and phrases will also be used in different business environment, such as:

- Meetings
- During presentation
- Briefings and
- Public speaking
- Interviews

Also, you will learn the basic rules for engaging in business writing, which includes:

- Letter writing
- Email writing
- Drafting of presentations
- Proposal writing

Every rules and guideline given in this book is practical and easy to follow. If you are purchasing “The Advanced Business English Guide” Today, you will be also getting 2 BONUS Chapters on How to

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Ace your Interview + How to get a Promotion and a Raise. It's time to advance your career and start the journey to improve your Business English skills. You will make significant changes to the way you communicate. You Will be a Step Closer to Success!

This book sheds light on all aspects of earnings claims, including defining what an earnings claim really is, the origins of its regulation under the franchise disclosure laws, how a franchisor should prepare an earnings claim, how a franchisee should use an earnings claim, how a franchisee may attack lawful and unlawful earnings claims, how a franchisor may defend against such attacks, and how the government franchise enforcement authorities, investigate unlawful earnings claim activity.

This book compiles new findings in plant electrophysiology from the work of internationally renowned experts in the fields of electrophysiology, bio-electrochemistry, biophysics, signal transduction, phloem transport, tropisms, ion channels, plant electrochemistry, and membrane transport. Opening with a historical introduction, the book reviews methods in plant electrophysiology, introducing such topics as measuring membrane potentials and ion fluxes, patch-clamp technique, and electrochemical sensors. The coverage includes experimental results and their theoretical interpretation.

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This book provides a concise yet comprehensive overview of pediatric acute respiratory distress syndrome (PARDS). The text reviews the emerging science behind the new PARDS definition; explores epidemiology, pathobiology, etiologies, and risk factors; reviews state-of-the-art treatment modalities and strategies; and discusses clinical outcomes. Written by experts in the field, Pediatric Acute Respiratory Distress Syndrome: A Clinical Guide is a valuable resource for clinicians and practitioners who specialize in pediatric critical care. At the brink of the third millennium organ transplantation, in the case of shortage, a fair allocation of organs will become routine and the results will be so excellent that every patient in need of a transplant timely subject that continues to be discussed between doctors and laymen. How to provide every doctor and between laymen. patient with his or her organ and how to guarantee This book serves the needs of several groups of that the organ is in a superb condition? That is the specialists working with transplant patients. Firstly, the challenge for all of us privileged to work in this field of medicine. multi-organ donor, and who have to collaborate to do In this book, an international team of experts has the best for their recipients. Heart surgeons

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might like laid down their intellectual knowledge on the process to learn from liver surgeons and vice versa. Secondly, that precedes successful transplantation: Procurement, the paramedical specialist who is involved in the treat Preservation and Allocation. In four sections important ment of transplant patients and their families will find aspects of this preamble of the actual transplantation in this book many answers to questions. Students can are dealt with. also use it as a source for general information.

This book provides a systematic development of tensor methods in statistics, beginning with the study of multivariate moments and cumulants. The effect on moment arrays and on cumulant arrays of making linear or affine transformations of the variables is studied. Because of their importance in statistical theory, invariant functions of the cumulants are studied in some detail. This is followed by an examination of the effect of making a polynomial transformation of the original variables. The fundamental operation of summing over complementary set partitions is introduced at this stage. This operation shapes the notation and pervades much of the remainder of the book. The necessary lattice-theory is discussed and suitable tables of complementary set partitions are provided. Subsequent chapters deal with asymptotic approximations based on Edgeworth expansion and saddlepoint expansion. The saddlepoint expansion is introduced

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via the Legendre transformation of the cumulant generating function, also known as the conjugate function of the cumulant generating function. A recurring theme is that, with suitably chosen notation, multivariate calculations are often simpler and more transparent than the corresponding univariate calculations. The final two chapters deal with likelihood ratio statistics, maximum likelihood estimation and the effect on inferences of conditioning on ancillary or approximately ancillary statistics. The Bartlett adjustment factor is derived in the general case and simplified for certain types of generalized linear models. Finally, Barndorff-Nielsen's formula for the conditional distribution of the maximum likelihood estimator is derived and discussed. More than 200 Exercises are provided to illustrate the uses of tensor methodology.

College Admission-- How to Get Into Your Dream School: Real Students, Real Stories is a how-to guide for college-bound students and their families filled with personal, relevant guidance and useful information in the college search and application process. Students who have successfully joined the ranks of their dream schools share their own journeys and first-hand experiences that led them to college acceptance. Expert advice, tips, and pitfalls from high school counselors, college admissions officers, and the author's own observations in working with thousands of high school scholars provide an equal level of hope for

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all students as they identify and apply to their dream schools. Real stories and essay samples from real students pursuing a wide range of school options--from community colleges to the Ivy League--are what set this book apart. It is a relatable and rich resource for anyone looking to find his or her best-fit college or university.

This booklet is primarily concerned with formal kindergarten, school, technical/vocational, and higher education systems. The work is concerned not only with government financing of education, but also with various forms of private, household, and community financing. An extraordinary compendium of information on herbal medicine, *Medicinal Plants of the World, Volume 3* comprehensively documents the medicinal value of 16 major plant species widely used around the world in medical formulations. The book's exhaustive summary of available scientific data for the plants provides detailed information on how each plant is used in different countries, describing both traditional therapeutic applications and what is known from its use in clinical trials. A comprehensive bibliography of over 3000 references cites the literature available from a wide range of disciplines. This book offers an unprecedented collection of vital scientific information for pharmacologists, herbal medicine practitioners, drug developers, medicinal chemists, phytochemists, toxicologists, and researchers who want to explore the use of plant materials for medicinal and related purposes.

The classic collection by one of the greatest essayists of our time. Selected by E.B. White himself, the essays in this volume span a lifetime of writing and a body of work without peer. "I have chosen the ones that have amused me in the rereading," he writes in the Foreword,

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"alone with a few that seemed to have the odor of durability clinging to them." These essays are incomparable; this is a volume to treasure and savor at one's leisure.

A first workbook for preschoolers introduces the safe use of scissors, explaining how to hold and control a pair of scissors before performing simple one-stroke cuts and eventually advancing to more complicated curves, zig-zagged lines and shapes. Original.

Almost any economist will agree that education plays a key role in determining a country's economic growth and standard of living, but what we know about education policy in developing countries is remarkably incomplete and scattered over decades and across publications. *Education Policy in Developing Countries* rights this wrong, taking stock of twenty years of research to assess what we actually know—and what we still need to learn—about effective education policy in the places that need it the most. Surveying many aspects of education—from administrative structures to the availability of health care to parent and student incentives—the contributors synthesize an impressive diversity of data, paying special attention to the gross imbalances in educational achievement that still exist between developed and developing countries. They draw out clear implications for governmental policy at a variety of levels, conscious of economic realities such as budget constraints, and point to crucial areas where future research is needed. Offering a wealth of insights into one of the best investments a nation can make, *Education Policy in Developing Countries* is an essential contribution to this most urgent field.

The Philippines series of the PALI Language Texts, under the general editorship of Howard P. McKaughan, consists of lesson textbooks, grammars, and dictionaries for seven major Filipino languages.

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This book reports on the application of advanced models of the human binaural hearing system in modern technology, among others, in the following areas: binaural analysis of aural scenes, binaural de-reverberation, binaural quality assessment of audio channels, loudspeakers and performance spaces, binaural perceptual coding, binaural processing in hearing aids and cochlea implants, binaural systems in robots, binaural/tactile human-machine interfaces, speech-intelligibility prediction in rooms and/or multi-speaker scenarios. An introduction to binaural modeling and an outlook to the future are provided. Further, the book features a MATLAB toolbox to enable readers to construct their own dedicated binaural models on demand.

Presents an ultimate theory of knowledge-based management and organizational knowledge creation based on empirical research and an extensive literature review. It explores knowledge management as a global concept and is relevant to any company that wants to prosper and thrive in the global knowledge economy.

Strengthen family and community engagement to promote equity and increase student success! When schools, families, and communities collaborate and share responsibility for students' education, more students succeed in school. Based on 30 years of research and fieldwork, this fourth edition of a bestseller provides tools and guidelines to use to develop more effective and equitable programs of family and community engagement. Written by a team of well-known experts, this foundational text demonstrates a proven approach to implement and sustain

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inclusive, goal-oriented programs. Readers will find: Many examples and vignettes Rubrics and checklists for implementation of plans CD-ROM complete with slides and notes for workshop presentations

Since different types of stem cells for therapeutic applications have recently been proposed, this timely volume explores various sources of stem cells for tissue and organ regeneration and discusses their advantages and limitations. Also discussed are pros and cons for using embryonic stem cells, induced pluripotent stem cells, and adult stem cells isolated from postnatal tissues. Different types of adult stem cells for therapeutic applications are also reviewed, including hematopoietic stem cells, epidermal stem cells, endothelial progenitors, neural stem cells, mesenchymal stem cells, and very small embryonic-like stem cells. This book also addresses paracrine effects of stem cells in regenerative medicine that are mediated by extracellular microvesicles and soluble secretome. Finally, potential applications of stem cells in cardiology, gastroenterology, neurology, immunotherapy, and aging are presented. This is an ideal book for students and researchers working in the stem cell research field.

This book offers a practical reference guide to soft rock mechanics for engineers and scientists. Written by recognized experts, it will benefit professionals, contractors, academics, researchers and students working on rock engineering

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projects in the fields of civil engineering, mining and construction engineering. Soft Rock Mechanics and Engineering covers a specific subject of great relevance in Rock Mechanics – and one that is directly connected to the design of geotechnical structures under difficult ground conditions. The book addresses practical issues related to the geomechanical properties of these types of rock masses and their characterization, while also discussing advances regarding in situ investigation, safety, and monitoring of geotechnical structures in soft rocks. Lastly, it presents important case histories involving tunnelling, dam foundations, coal and open pit mines and landslides.

Literacy is a concern of all nations of the world, whether they be classified as developed or undeveloped. A person must be able to read and write in order to function adequately in society, and reading and writing require a script. But what kinds of scripts are in use today, and how do they influence the acquisition, use and spread of literacy? *Scripts and Literacy* is the first book to systematically explore how the nature of a script affects how it is read and how one learns to read and write it. It reveals the similarities underlying the world's scripts and the features that distinguish how they are read. Scholars from different parts of the world describe several different scripts, e.g. Japanese, Chinese, Korean, Indian Amerindian -- and how they are learned. Research data and theories are

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presented. This book should be of primary interest to educators and researchers in reading and writing around the world.

The Textbook of Erectile Dysfunction brings together authorities on the topic who cover the latest developments in diagnosis and treatment. The 764 page book begins with a coverage of the basic science involved from a variety of viewpoints. The following section on clinical evaluation explains the diagnostic techniques available. The section on treatment details the different courses of treatment available from drug treatment to surgery and prostheses. The last section covers special problems including Peyronie's disease, phalloplasty, and penile injury. "This workbook will help your child perform multiple-digit vertical form multiplication."--Cover.

This book chronicles the divergent growth trends in car production in Belgium and Spain. It delves into how European integration, high wages, and the demise of GM and Ford led to plant closings in Belgium. Next, it investigates how lower wages and the expansion strategies of Western European automakers stimulated expansion in the Spanish auto industry. Finally, it offers three alternate scenarios regarding how further EU expansion and Brexit may potentially reshape the geographic footprint of European car production over the next ten years. In sum, this book utilizes history to help expand the knowledge of scholars and

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policymakers regarding how European integration and Brexit may impact future auto industry investment for all EU nations.

As our understanding of the science and functions of color in food has increased, the preferred colorants, forms of use, and legislation regulating their uses have also changed. *Natural Colorants for Food and Nutraceutical Uses* reflects the current tendency to use natural pigments. It details their science, technology, and applications as well as their nutraceutical properties. Starting with the basics, the book creates an understanding of physical colors, discusses color measurement, and analyzes why natural pigments are preferred today. The authors present an overview of global colorants, including safety, toxicity and regulatory aspects. Information about inorganic and synthetic colorants is included. The book then focuses on applications of natural colorants, with special attention given to characteristics, extraction and processing stability, and the use of biotechnology and molecular biology to increase colorant production. Finally, the book examines the nutraceutical properties of natural colorants and compares them to other well-known nutraceutical components. From the basics to highly specialized concepts and applications, *Natural Colorants for Food and Nutraceutical Uses* presents essential, practical information about pigments in the food industry. With its coverage of state-of-the-art technologies and future

trends in the application of color to food, this book provides the most comprehensive, up-to-date survey of the field.

The experience and knowledge acquired in teacher education courses should build important fundamentals for the future teaching of mathematics. In particular, experience in mathematical problem solving, and in planning lessons devoted to problem solving, is an essential component of teacher preparation. This book develops a problem solving approach and is intended to be a text used in mathematics education courses (or professional development) for pre-service or in-service middle and secondary school teachers. It can be used both in graduate and undergraduate courses, in accordance with the focus of teacher preparation programs. The content of the book is suited especially for those students who are further along in their mathematics education preparation, as the text is more involved with mathematical ideas and problem solving, and discusses some of the intricate pedagogical considerations that arise in teaching. The text is written not as an introduction to mathematics education (a first course), but rather as a second, or probably, third course. The book deals both with general methodology issues in mathematics education incorporating a problem solving approach (Chapters 1-6) and with more concrete applications within the context of specific topics – algebra, geometry, and discrete mathematics (Chapters 7-13). The book provides opportunities for teachers to engage in authentic mathematical thinking. The mathematical ideas under consideration build on specific middle and secondary school content while simultaneously pushing the teacher to consider more advanced topics, as well as various connections across mathematical domains. The book strives to preserve the spirit of

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discussion, and at times even argument, typical of collaborative work on a lesson plan. Based on the accumulated experience of work with future and current teachers, the book assumes that students have some background in lesson planning, and extends their thinking further. Specifically, this book aims to provide a discussion of how a lesson plan is constructed, including the ways in which problems are selected or invented, rather than the compilation of prepared lesson plans. This approach reflects the authors' view that the process of searching for an answer is often more important than the formal result.

An extraordinary compendium of information on herbal medicine, *Medicinal Plants of the World, Volume 2* comprehensively documents the medicinal value of twenty-four major plants species widely used around the world in medical formulations. The book's exhaustive summary of available scientific data for the plants provides detailed information on how each plant is used in different countries, describing both traditional therapeutic applications and what is known from its use in clinical trials. A comprehensive bibliography of over 3000 references cites the literature available from a wide range of disciplines. This book offers an unprecedented collection of vital scientific information for pharmacologists, herbal medicine practitioners, drug developers, medicinal chemists, phytochemists, toxicologists, and researchers who want to explore the use of plant materials for medicinal and related purposes. In this book, a summary and update of the most important areas of CPP research are presented, whilst raising relevant questions for further development. The CPP sequences are presented and discussed throughout the book. The methods for testing CPP mechanisms are discussed in detail. Various approaches for the testing of endocytotic pathways of CPP uptake are also described. Different CPP uptake experiments are compared since it is becoming clear

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that it is often best to apply several methods in a complementary manner in order to most comprehensively evaluate CPP uptake mechanisms due to the complexity of these processes. A brief summary of functionality issues of CPPs, both in vitro and in vivo are discussed. Therapeutic potential of CPPs and commercial developments are discussed. The monograph is written for researchers and students in the field.

This first-of-its-kind legal guide showcases how to use the latest Web-based and software technologies, such as Web 2.0, Google tools, Microsoft Office, and Acrobat, to work collaboratively and more efficiently on projects with colleagues, clients, co-counsel and even opposing counsel. The book provides a wealth of information useful to lawyers who are just beginning to try collaboration tools, as well as tips and techniques for those lawyers with intermediate and advanced collaboration experience.

Premature ejaculation (PE) is a common male sexual complaint, with a self-reported prevalence of 20–30% in observational studies. Over the past 10–20 years, our understanding of PE has evolved from the initial premise that it is a psychological disorder to the current recognition of an underlying biological and probably genetic predisposition in many cases. This new understanding has been accompanied by novel approaches to the assessment and treatment of patients with PE. Premature Ejaculation is the first truly contemporary reference volume on the subject. It covers a broad range of aspects relevant to PE, including past and current definitions of the condition, the etiology of PE, its epidemiology, the impact of PE on both the patient and his partner, and the treatment of PE using pharmacotherapy and/or psychotherapy/cognitive behavioral therapy. The book is well illustrated and referenced, and the primary focus throughout is on evidence-based medicine. This timely and authoritative

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volume will be of great value to sexual health physicians, andrologists, endocrinologists, urologists, psychiatrists, sexologists, psychologists, and other interested healthcare professionals.

Level: KS3 Subject: Science

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