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Fintech Pranay Gupta 2018-12-03 This extraordinary book, written by leading players in a burgeoning technology revolution, is about the merger of finance and technology (fintech), and covers its various aspects and how they impact each discipline within the financial services industry. It is an honest and direct analysis of where each segment of financial services will stand. *Fintech: The New DNA of Financial Services* provides an in-depth introduction to understanding the various areas of fintech and terminology such as AI, big data, robo-advisory, blockchain, cryptocurrency, InsurTech, cloud computing, crowdfunding and many more. Contributions from fintech innovators discuss banking, insurance and investment management applications, as well as the legal and human resource implications of fintech in the future.

Maternity and Paternity at Work Laura Addati 2014-05-13 This report provides a picture of where we stand and what we have learned so far about maternity and paternity rights across the world. It offers a rich international comparative analysis of law and practice relating to maternity protection at work in 185 countries and territories, comprising leave, cash benefits, employment protection and non-discrimination, health protection, breastfeeding arrangements at work and childcare. Expanding on previous editions, it is based on an extensive set of new legal and statistical indicators, including coverage in law and in practice of paid maternity leave as well as statutory provision of paternity and parental leave and their evolution over the last 20 years. The report also takes account of the recent economic crisis and austerity measures. It shows how well national laws and practice conform to the ILO Maternity Protection Convention, 2000 (No. 183), its accompanying Recommendation (No. 191) and the Workers with Family Responsibilities Convention, 1981 (No. 156), and offers guidance on policy design and implementation. This report shows that a majority of countries have established legislation to protect and support maternity and paternity at work, even if those provisions do not always meet the ILO standards. One of the persistent challenges is the effective

implementation of legislation, to ensure that all workers are able to benefit from these essential labour rights.

Space Race (1955-1975) 2021-07-21 Pre-University Paper from the year 2020 in the subject Didactics - English - Miscellaneous, grade: 14, , language: English, abstract: Many children dream of being astronauts and traveling to space. Many hopeless romantics look at the sky in the evening, count the stars and think about how beautiful the moon and sun is. But does anyone ever wonder what's happening up there? Or what are the conditions like? How did the children start dreaming of such thoughts? What are the reasons why humanity started discovering space? And does it have any advantages for us? Or is it just a political game between two great powers? In my research work I am going to try to answer these questions. After World War II, it did not take long for a new conflict to begin, which occurred between the world's two greatest powers. The democratic, capitalist United States and the communist Soviet Union. The battle was known as The Cold War (1947-1991). Neither country fought directly in an open fight. They used many different places to demonstrate their great power, to show their opponent what kind of weapons they have. Starting with the Berlin Blockade (1948-1949), the Vietnam War (1956-1975) and The Cuban Missile Crisis 1962, until the last crisis occurred during the 1983 NATO exercise. The conflict did not just remain on Earth. In the late 1950s, Space was a new dramatic theater in the Cold War for this Power showing off race. Both countries tried to overcome the achievements of the other, which was called the Space Race. At the beginning I will explain how this cooption started and what the reasons were. The leadership was for the Russians, so they were more successful in the beginning, therefore I will write about the achievements they had before the United States joined this race. But the United States wasn't satisfied with being behind in the "game", so they decided to set up NASA space exploration and they challenged themselves with one of the biggest projects that had great success in the late 1960s and these are my fourth and fifth points that I want to discuss. Thereafter I will investigate whether there was a winner in the end or not. Lastly, I will show the benefits of these races, because thanks to it, there are many new useful inventions and developments that have made our lives easier.

An Introduction to Qualitative Research Uwe Flick 2009-02-19 'The fourth edition of Uwe Flick's Introduction to Qualitative Research remains the most comprehensive and thorough text in qualitative research. It is student-and user-friendly, thoroughly up-to-date in terms of the latest developments in the field, imminently practical. it is the single most important introductory book on qualitative inquiry in the social sciences today' - Norman K. Denzin, University of Illinois The new edition of Uwe Flick's bestselling textbook has been fully revised, expanded and updated. An Introduction to Qualitative Research guides the student step-by-step through the research process of qualitative research. This classic text covers all of the main theoretical approaches to qualitative research, and provides unmatched coverage of the full range of different qualitative methods and approaches now available to researchers. A range of new features have been added to the new edition

including: - New structure to better meet the needs of teaching qualitative research - A new chapter on Grounded Theory plus updated coverage on the full range of other qualitative methods - A summary section discussing the state-of-the-art in qualitative research - A glossary - Updated cases studies, exercises and guided questions This new edition will continue to ensure that An Introduction to Qualitative Research remains an essential introductory text for all students of qualitative research.

WHO Expert Committee on Specifications for Pharmaceutical Preparations World Health Organization 2019-05-29 The Expert Committee on Specifications for Pharmaceutical Preparations works towards clear independent and practical standards and guidelines for the quality assurance of medicines. Standards are developed by the Committee through worldwide consultation and an international consensusbuilding process. The following new guidelines were adopted and recommended for use: Procedure for development of the WHO medicines quality assurance guidelines; Guidelines on Good Manufacturing Practices (GMP) for heating ventilation and air-conditioning systems (HVAC) ? illustrative part; Guidance on GMP for Validation including the general main text analytical procedure validation validation of computerized systems and qualification; in the area of interchangeability of multisource medicines: the Protocol to conduct equilibrium solubility experiments for the purpose of biopharmaceutics classification systembased classification of active pharmaceutical ingredients for biowaiver; Guidelines on Import Procedures for pharmaceutical products; and the Good Practice Guidance document on implementing the collaborative procedures. All of the above are included in this report and recommended for implementation.

Amnesty International Report 2008 Amnesty International 2008 This annual report documents human rights abuses by governments and armed opposition groups in 150 countries across the world. It provides an invaluable reference guide to international human rights developments.

A National Study of the Aviation Mechanics Occupation University of California, Los Angeles. Division of Vocational Education 1971

The R Software Pierre Lafaye de Micheaux 2014-05-13 The contents of The R Software are presented so as to be both comprehensive and easy for the reader to use. Besides its application as a self-learning text, this book can support lectures on R at any level from beginner to advanced. This book can serve as a textbook on R for beginners as well as more advanced users, working on Windows, MacOs or Linux OSes. The first part of the book deals with the heart of the R language and its fundamental concepts, including data organization, import and export, various manipulations, documentation, plots, programming and maintenance. The last chapter in this part deals with oriented object programming as well as interfacing R with C/C++ or Fortran, and contains a section on debugging techniques. This is followed by the second part of the book, which provides detailed explanations on how to perform many standard statistical analyses, mainly in the Biostatistics field. Topics from

mathematical and statistical settings that are included are matrix operations, integration, optimization, descriptive statistics, simulations, confidence intervals and hypothesis testing, simple and multiple linear regression, and analysis of variance. Each statistical chapter in the second part relies on one or more real biomedical data sets, kindly made available by the Bordeaux School of Public Health (Institut de Santé Publique, d'Épidémiologie et de Développement - ISPED) and described at the beginning of the book. Each chapter ends with an assessment section: memorandum of most important terms, followed by a section of theoretical exercises (to be done on paper), which can be used as questions for a test. Moreover, worksheets enable the reader to check his new abilities in R. Solutions to all exercises and worksheets are included in this book.

IBM WebSphere Transformation Extender 8.2 John Bergland 2009

GDPR and Biobanking Jane Reichel 2021 Part I Setting the scene -- Introduction: Individual rights, the public interest and biobank research 4000 (8) -- Genetic data and privacy protection -- Part II GDPR and European responses -- Biobank governance and the impact of the GDPR on the regulation of biobank research -- Controller' and processor's responsibilities in biobank research under GDPR -- Individual rights in biobank research under GDPR -- Safeguards and derogations relating to processing for archiving purposes in the scientific purposes: Article 89 analysis for biobank research -- A Pan-European analysis of Article 89 implementation and national biobank research regulations -- EEA, Switzerland analysis of GDPR requirements and national biobank research regulations -- Part III National insights in biobank regulatory frameworks -- Selected 10-15 countries for reports: Germany -- Greece -- France -- Finland -- Sweden -- United Kingdom -- Part IV Conclusions -- Reflections on individual rights, the public interest and biobank research, ramifications and ways forward. .

Oil and Gas Production Handbook: An Introduction to Oil and Gas Production Havard Devold 2013

English in Mind Level 1 Student's Book with DVD-ROM Herbert Puchta 2010-02-25
This second edition updates a course which has proven to be a perfect fit for classes the world over. Engaging content and a strong focus on grammar and vocabulary combine to make this course a hit with both teachers and students. Popular course features have been refreshed with new content, including the imaginative reading and listening topics, 'Culture in Mind', and 'Everyday English' sections. New for the second edition is a DVD-ROM with the Level 1 Student's Book containing games, extra exercises and videos featuring the photostories' characters as well as a 'Videoke' record-yourself function. There is a full 'Vocabulary bank' at the back of the book which expands upon lexical sets learned in the units.

New Headway: Elementary Fourth Edition: Student's Book and iTutor Pack 2011-08-25

Interchange Level 1 Online Workbook (Standalone for Students) Jack C. Richards 2012-09-03 Interchange Fourth Edition is a four-level series for adult and young-adult learners of English from the beginning to the high-intermediate level. Interchange Fourth Edition Online Workbook, Level 1 provides additional activities to reinforce what is presented in Student's Book, Level 1. The Online Workbook includes activities which correspond to each Student's Book unit; instant feedback for hundreds of activities; clear, easy-to-follow navigation; additional audio practice; and simple tools to monitor progress.

Traffic Management Guidelines 2003-12-31 At foot of title: National Development Plan, Department of the Environment and Local Government, Dublin Transportation Office, Department of Transport.

Debugging with GDB Richard M. Stallman 1996

The Structure of Modern English Laurel J. Brinton 2000-01-01 This text is designed for undergraduate and graduate students interested in contemporary English, especially those whose primary area of interest is English as a second language. Focus is placed exclusively on English data, providing an empirical explication of the structure of the language.

New Headway: Elementary Third Edition: Workbook (Without Key) John Soars 2006-03-07 Clear focus on grammar Balanced, integrated-skills syllabus Real-world speaking skills - Everyday English, Spoken English, Music of English Digital resources for interactive whiteboards - New Headway iTools Full teacher support - resources, photocopiables, tests and more - in print and online

Bilingual discourse and cross-cultural fertilisation: Sanskrit and Tamil in medieval India Whitney Cox 2020-06-30 This collection of essays aims to trace the exchanges, responses, affinities and fissures between the worlds of Sanskrit and Tamil literary cultures in the medieval period. The literati who produced the works in these languages moved freely between domains that earlier Indological scholarship has tended to compartmentalise. The eleven studies presented in this volume strive to move beyond this narrow perspective and thus do justice to the richness and complexity of the cultural synthesis that took shape in South India in this period. By looking at the articulation of identities, practices, and discourses in texts of a range of genres composed in Tamil and Sanskrit (as well as Prakrit and Malayalam), these essays supply a picture of South India in the medieval period that is unique in its historical depth and conceptual complexity and demonstrate innovative ways to investigate and problematise cross-cultural phenomena, while suggesting how much work yet remains to be done.

CompTIA Linux+ / LPIC-1 Cert Guide Ross Brunson 2015-12-11 This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CompTIA Linux+ and LPIC-1 exam success with this CompTIA Authorized Cert Guide from Pearson IT Certification, a leader in IT

Certification learning and a CompTIA Authorized Platinum Partner. Master CompTIA Linux+ LX0-103/LX0-104 and LPIC-1 101 & 102 (Version 4) exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Learn from bonus video mentoring on DVD from Pearson's popular LPIC-1 101 and 102 LiveLessons CompTIA® Linux+ Cert Guide/LPIC-1 is a best-of-breed exam study guide. Long-time Linux insider Ross Brunson and Linux infrastructure expert Sean Walberg share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. The book also contains bonus video mentoring on DVD from Pearson's popular LPIC-1 101 and 102 LiveLessons. Go to the back pages of your eBook for instructions on how to access the personal video mentoring content. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA-authorized study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The CompTIA-authorized study guide helps you master all the topics on the latest CompTIA Linux+ and LPIC-1 exams, including the following: Installing Linux The Boot Process Package Install and Management Basic Command Line Usage File Management Text Processing/Advanced Command Line Process Management Editing Text Partitions and Filesystems Permissions Customizing Shell Environments Shell Scripting Basic SQL Management Configuring User Interfaces and Desktops Managing Users and Groups Schedule and Automate Tasks Configuring Print and Email Services Logging and Time Services Networking Fundamentals Security

Childlessness in Europe: Contexts, Causes, and Consequences Michaela Kreyenfeld
2017-01-11 This book is published open access under a CC BY 4.0 license. This open access book provides an overview of childlessness throughout Europe. It offers a collection of papers written by leading demographers and sociologists that examine contexts, causes, and consequences of childlessness in countries throughout the region. The book features data from all over Europe. It specifically highlights patterns of childlessness in Germany, France, the United Kingdom, Finland, Sweden, Austria and Switzerland. An additional chapter on childlessness in the United States puts the European experience in perspective. The book offers readers such insights as the determinants of lifelong childlessness, whether governments can and should counteract increasing childlessness, how the phenomenon differs across social strata and the role economic uncertainties play. In addition, the book also examines life course dynamics and biographical patterns, assisted reproduction as well as the consequences of childlessness. Childlessness has been increasing rapidly in most European countries in recent decades. This book offers readers expert analysis into this issue from leading experts in the field of family behavior.

From causes to consequences, it explores the many facets of childlessness throughout Europe to present a comprehensive portrait of this important demographic and sociological trend.

Exploring Omnichannel Retailing Wojciech Piotrowicz 2018-12-05 This book compiles the current state of knowledge on omnichannel retailing, a new concept in which all sales and interaction channels are considered together, and which aims to deliver a seamless customer experience regardless of the channel. It highlights case studies and examples related to each of the many barriers to an omnichannel approach, demonstrating not just success stories, but also failures. While omnichannel has already been recognized as an emerging retail trend, the articles in this book fill an important gap in research on the topic. Providing readers with essential insights on the omnichannel strategy and its implementation, the book will also stimulate academic discussion on this emerging trend.

The Scarlet Letter Nathaniel Hawthorne 1852

Fundamentals of Industrial Instrumentation and Process Control, Second Edition William C. Dunn 2018-09-28 A Fully Updated, Practical Guide to Automated Process Control and Measurement Systems This thoroughly revised guide offers students a solid grounding in process control principles along with real-world applications and insights from the factory floor. Written by an experienced engineering educator, *Fundamentals of Industrial Instrumentation and Process Control, Second Edition* is written in a clear, logically organized manner. The book features realistic problems, real-world examples, and detailed illustrations. You'll get clear explanations of digital and analog components, including pneumatics, actuators, and regulators, and comprehensive discussions on the entire range of industrial processes. *Fundamentals of Industrial Instrumentation and Process Control, Second Edition* covers:•Pressure•Level•Flow•Temperature and heat•Humidity, density, viscosity, & pH•Position, motion, and force•Safety and alarm•Electrical instruments and conditioning•Regulators, valves, and actuators•Process control•Documentation and symbol standards•Signal transmission•Logic gates•Programmable Logic controllers•Motor control•And much more

Digital Literacy: Tools and Methodologies for Information Society Rivoltella, Pier Cesare 2008-01-31 Currently in a state of cultural transition, global society is moving from a literary society to digital one, adopting widespread use of advanced technologies such as the Internet and mobile devices. Digital media has an extraordinary impact on society's formative processes, forcing a pragmatic shift in their management and organization. *Digital Literacy: Tools and Methodologies for Information Society* strives to define a conceptual framework for understanding social changes produced by digital media and creates a framework within which digital literacy acts as a tool to assist younger generations to interact critically with digital media and their culture, providing scholars, educators, researchers, and practitioners a technological and sociological approach to this cutting-edge topic from an

educational perspective.

Ghana Must Go Taiye Selasi 2013-04-04 A stunning novel, spanning generations and continents, *Ghana Must Go* by rising star Taiye Selasi is a tale of family drama and forgiveness, for fans of Zadie Smith and Chimamanda Ngozi Adichie. This is the story of a family -- of the simple, devastating ways in which families tear themselves apart, and of the incredible lengths to which a family will go to put itself back together. It is the story of one family, the Sais, whose good life crumbles in an evening; a Ghanaian father, Kweku Sai, who becomes a highly respected surgeon in the US only to be disillusioned by a grotesque injustice; his Nigerian wife, Fola, the beautiful homemaker abandoned in his wake; their eldest son, Olu, determined to reconstruct the life his father should have had; their twins, seductive Taiwo and acclaimed artist Kehinde, both brilliant but scarred and flailing; their youngest, Sadie, jealously in love with her celebrity best friend. All of them sent reeling on their disparate paths into the world. Until, one day, tragedy spins the Sais in a new direction. This is the story of a family: torn apart by lies, reunited by grief. A family absolved, ultimately, by that bitter but most tenuous bond: familial love. *Ghana Must Go* interweaves the stories of the Sais in a rich and moving drama of separation and reunion, spanning generations and cultures from West Africa to New England, London, New York and back again. It is a debut novel of blazing originality and startling power by a writer of extraordinary gifts. '*Ghana Must Go* is both a fast moving story of one family's fortunes and an ecstatic exploration of the inner lives of its members. With her perfectly-pitched prose and flawless technique, Selasi does more than merely renew our sense of the African novel: she renews our sense of the novel, period. An astonishing debut' Teju Cole, author of *Open City* Taiye Selasi was born in London and raised in Massachusetts. She holds a B.A. in American Studies from Yale and an M.Phil. in International Relations from Oxford. "The Sex Lives of African Girls" (*Granta*, 2011), Selasi's fiction debut, appears in *Best American Short Stories 2012*. She lives in Rome.

Mapping and the Citizen Sensor Giles Foody 2017-09-11 Maps are a fundamental resource in a diverse array of applications ranging from everyday activities, such as route planning through the legal demarcation of space to scientific studies, such as those seeking to understand biodiversity and inform the design of nature reserves for species conservation. For a map to have value, it should provide an accurate and timely representation of the phenomenon depicted and this can be a challenge in a dynamic world. Fortunately, mapping activities have benefitted greatly from recent advances in geoinformation technologies. Satellite remote sensing, for example, now offers unparalleled data acquisition and authoritative mapping agencies have developed systems for the routine production of maps in accordance with strict standards. Until recently, much mapping activity was in the exclusive realm of authoritative agencies but technological development has also allowed the rise of the amateur mapping community. The proliferation of inexpensive and highly mobile and location aware devices together with Web 2.0 technology have fostered the emergence of the citizen as a source of data. Mapping presently benefits from vast amounts

of spatial data as well as people able to provide observations of geographic phenomena, which can inform map production, revision and evaluation. The great potential of these developments is, however, often limited by concerns. The latter span issues from the nature of the citizens through the way data are collected and shared to the quality and trustworthiness of the data. This book reports on some of the key issues connected with the use of citizen sensors in mapping. It arises from a European Co-operation in Science and Technology (COST) Action, which explored issues linked to topics ranging from citizen motivation, data acquisition, data quality and the use of citizen derived data in the production of maps that rival, and sometimes surpass, maps arising from authoritative agencies.

Gender Change in Academia Birgit Riegraf 2010-07-15 Editors' Foreword The fundamental changes currently taking place in the national and international science landscapes can no longer be overlooked. Within those changes, reforms do not go 'as planned' but, as is always the case with processes of rationalisation, have a series of unintended effects. At the same time it becomes increasingly clear who in this process are the winners and who are the losers, although this is still subject to fluctuation and change. This can be illustrated by two - amples from current events: Where the range of taught courses is concerned, as part of the Bologna Process the new structuring of student study paths and their organisation is aimed at unifying the European area of science to ensure a study that is equally permissive and efficient. However, it is to be deplored that the mobility of s- dents has become more restricted because of an increasing specialisation in the available study paths. Also, bachelor degrees do not meet with the anticipated high response from the labour market in all countries, so that the master's degree is becoming more or less a 'must', while at the same time the number of study places on master's courses is limited. Instead of the intended reduction in the duration of study time in comparison to the previous German 'Magister' and 'Diplom', rather a prolongation in the duration of studies has been recorded.

The British History Geoffrey 2017-08-19

Automobile Electrical and Electronic Systems Tom Denton 2017-09-12 This textbook will help you learn all the skills you need to pass all Vehicle Electrical and Electronic Systems courses and qualifications. As electrical and electronic systems become increasingly more complex and fundamental to the workings of modern vehicles, understanding these systems is essential for automotive technicians. For students new to the subject, this book will help to develop this knowledge, but will also assist experienced technicians in keeping up with recent technological advances. This new edition includes information on developments in pass-through technology, multiplexing, and engine control systems. In full colour and covering the latest course specifications, this is the guide that no student enrolled on an automotive maintenance and repair course should be without. Designed to make learning easier, this book contains: Photographs, flow charts, quick reference tables, overview descriptions and step-by-step instructions. Case studies to help you put the principles covered

into a real-life context. Useful margin features throughout, including definitions, key facts and 'safety first' considerations.

Sustainable Value Chains for Sustainable Food Systems Food and Agriculture Organization 2017-05-19 "The workshop considered potential contributions of the organization, functioning and governance of food value chains to the sustainability of food systems. The various sessions were focused on different aspects in order to integrate perspectives of various actors, the private sector and civil society along with contributions from FAO, research and academia."--Publisher's description.

Psychology for Musicians Andreas C. Lehmann 2007-02-08 What is it that accounts for the differences between musical beginners, advanced music makers, and world class performers? Virtually everyone likes music and has the capacity to be musical in some way (despite what some may say about themselves). Yet far fewer people come to be so involved with it that they identify themselves as musicians, and fewer still become musicians of international class. Psychology for Musicians provides the basis for answering this question. Examining the processes that underlie the acquisition of musical skills, Lehmann, Sloboda, and Woody provide a concise, accessible, and up-to-date introduction to psychological research for musicians.

A Guide to Assessing Needs Ryan Watkins 2012-01-06 Making informed decisions is the essential beginning to any successful development project. Before the project even begins, you can use needs assessment approaches to guide your decisions. This book is filled with practical strategies that can help you define the desired results and select the most appropriate activities for achieving them.

Methods for Ecological Monitoring of Coral Reefs Joseph Hill 2004

Hello World Hannah Fry 2019-03-28 'One of the best books yet written on data and algorithms. . .deserves a place on the bestseller charts.' (The Times) You are accused of a crime. Who would you rather determined your fate - a human or an algorithm? An algorithm is more consistent and less prone to error of judgement. Yet a human can look you in the eye before passing sentence. Welcome to the age of the algorithm, the story of a not-too-distant future where machines rule supreme, making important decisions - in healthcare, transport, finance, security, what we watch, where we go even who we send to prison. So how much should we rely on them? What kind of future do we want? Hannah Fry takes us on a tour of the good, the bad and the downright ugly of the algorithms that surround us. In Hello World she lifts the lid on their inner workings, demonstrates their power, exposes their limitations, and examines whether they really are an improvement on the humans they are replacing. A BBC RADIO 4- BOOK OF THE WEEK SHORTLISTED FOR THE 2018 BAILLIE GIFFORD PRIZE AND 2018 ROYAL SOCIETY SCIENCE BOOK PRIZE

Noise Sensitivity of Boolean Functions and Percolation Christophe Garban

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2014-12-22 This is a graduate-level introduction to the theory of Boolean functions, an exciting area lying on the border of probability theory, discrete mathematics, analysis, and theoretical computer science. Certain functions are highly sensitive to noise; this can be seen via Fourier analysis on the hypercube. The key model analyzed in depth is critical percolation on the hexagonal lattice. For this model, the critical exponents, previously determined using the now-famous Schramm–Loewner evolution, appear here in the study of sensitivity behavior. Even for this relatively simple model, beyond the Fourier-analytic set-up, there are three crucially important but distinct approaches: hypercontractivity of operators, connections to randomized algorithms, and viewing the spectrum as a random Cantor set. This book assumes a basic background in probability theory and integration theory. Each chapter ends with exercises, some straightforward, some challenging.

Distance Geometry Antonio Mucherino 2012-12-22 This volume is a collection of research surveys on the Distance Geometry Problem (DGP) and its applications. It will be divided into three parts: Theory, Methods and Applications. Each part will contain at least one survey and several research papers. The first part, Theory, will deal with theoretical aspects of the DGP, including a new class of problems and the study of its complexities as well as the relation between DGP and other related topics, such as: distance matrix theory, Euclidean distance matrix completion problem, multispherical structure of distance matrices, distance geometry and geometric algebra, algebraic distance geometry theory, visualization of K-dimensional structures in the plane, graph rigidity, and theory of discretizable DGP: symmetry and complexity. The second part, Methods, will discuss mathematical and computational properties of methods developed to the problems considered in the first chapter including continuous methods (based on Gaussian and hyperbolic smoothing, difference of convex functions, semidefinite programming, branch-and-bound), discrete methods (based on branch-and-prune, geometric build-up, graph rigidity), and also heuristics methods (based on simulated annealing, genetic algorithms, tabu search, variable neighborhood search). Applications will comprise the third part and will consider applications of DGP to NMR structure calculation, rational drug design, molecular dynamics simulations, graph drawing and sensor network localization. This volume will be the first edited book on distance geometry and applications. The editors are in correspondence with the major contributors to the field of distance geometry, including important research centers in molecular biology such as Institut Pasteur in Paris.

Competitive Neutrality Maintaining a Level Playing Field between Public and Private Business OECD 2012-09-03 Part I: Introduction Part II: Aspects of competitive neutrality Part III: Options for implementation based on national practices

Fundamentals of Clinical Trials Lawrence M. Friedman 1998 The randomized control clinical trial has become the gold standard scientific method for the evaluation of pharmaceuticals, biologics, devices, procedures and diagnostic tests. This trial design has been successfully used in both therapeutic and

disease prevention trials. It is superior to alternative designs by eliminating several sources of bias which exist in those designs. This role has evolved over the past three decades in a number of disease areas including cardiology, ophthalmology, cancer and AIDS. While the specifics of using the randomized control design for a specific intervention and disease may differ, the basic fundamentals still apply in developing the study protocol and operational procedures. These fundamentals still apply in developing the study protocol and operational procedures. These fundamentals include identifying the specific questions to be tested and appropriate outcome measures, determining an adequate sample size, specifying the randomization procedure, detailing the intervention with visit schedules for subject evaluation, establishing an interim data and safety monitoring plan, detailing the final analysis plan and determining the organizational structure. This text is structured to address the fundamentals as the protocol for a clinical trial is being developed. A chapter is devoted to each of the critical areas of a protocol to aid the clinical trial researcher. The fundamentals described in this text are based on sound scientific methodology, statistical principles and years of accumulated experience by the three authors. Collectively, the authors have been active researchers in a broad area of clinical trials including cardiology, cancer, ophthalmology, diabetes, osteoporosis, AIDS, women's health and screening tests. In these studies, the authors have served as members of the steering committee responsible for developing the protocol and as members of data and safety monitoring committees. The fundamentals were proposed in the first edition published in 1981 and have not changed substantially in the later editions. However, the number of examples illustrating the fundamentals has greatly expanded based on the collective experience of the authors. This text is intended for the clinical researcher who is interested in designing a clinical trial and developing a protocol. It is also of value to researchers and practitioners who must critically evaluate the literature of published clinical trials and assess the merits of each trial and the implications for the care and treatment of patients. The text uses numerous examples of published clinical trials from a variety of medical disciplines to meaningfully illustrate the fundamentals. Technical design issues such as sample size are considered but the technical details have been suppressed as much as possible through the use of graphs and tables. While the technical material has been kept to a minimum, the statistician may still find the principles and fundamentals presented in this text useful both in a consulting and teaching capacity. The text assumes that the readers have only a modest formal statistical background. A basic introductory statistics course is helpful in maximizing the benefit of the text. However, a researcher or practitioner with no statistical background would still find most, if not all the chapters understandable and useful.

Canadiana 1989