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Formulae and Tables for Examinations of the Faculty of Actuaries and the Institute of Actuaries Convex Optimization Cambridge University Press **A comprehensive introduction to the tools, techniques and applications of convex optimization. Immunisation against infectious diseases** The Stationery Office **This is the third edition of this publication which contains the latest information on vaccines and vaccination procedures for all the vaccine preventable infectious diseases that may occur in the UK or in travellers going outside of the UK, particularly those immunisations that comprise the routine immunisation programme for all children from birth to adolescence. It is divided into two sections: the first section covers principles, practices and procedures, including issues of consent, contraindications, storage, distribution and disposal of vaccines, surveillance and monitoring, and the Vaccine Damage Payment Scheme; the second section covers the range of different diseases and vaccines. Reinforcement Learning, second edition An Introduction** MIT Press **The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning. Federal Register Regulation of Securities SEC Answer Book** Wolters Kluwer **Regulation of Securities: SEC Answer Book, Fourth Edition is your complete guide to understanding and complying with the day-to-day requirements of the federal securities laws that affect all public companies. Using a question-and-answer format similar to that which the SEC has embraced, this valuable desk reference provides concise, understandable answers to the most frequently asked compliance questions, and ready access to key statutes, regulations, and court decisions. Designed for both beginners and seasoned professionals, the volume contains approximately 1,400 pages organized in 23 self-contained chapters. Each chapter covers the basics before moving into the nuanced details, meeting the needs of those who seek a general understanding of a topic as well as those grappling directly with critical issues. Twice-yearly supplements keep the book current in this rapidly evolving field. Whether you are a lawyer, accountant, corporate executive, director or investor, youand'll be able to quickly find concise answers to essential questions about the Dodd-Frank Act, Exchange Act registration and reporting, executive compensation disclosure, derivatives disclosure, managementand's discussion and analysis, audit committee responsibilities, Sarbanes-Oxley, electronic filing, interactive financial data, tender offers, proxy solicitations, insider trading, going private transactions, shareholdersand' rights, SEC investigations, criminal enforcement, securities class actions, and much more! Commentaries on the Laws of England Asian Perspectives on Water Policy** Routledge **Asian countries are not homogenous. They are in different stages of social and economic development, with cultural conditions and institutional and legal frameworks varying from one country to another. Therefore, how water can be successfully managed differs from one country to another. The book provides authoritative analyses of how water is being managed in different Asian countries, ranging from the world's most populous countries like China and India to a city state like Singapore and an island country like Fiji. It also analyses in depth several wide ranging issues like terrorism, human rights, water-energy nexus, and roles of media, along with comprehensive discussions of legal, institutional and regulatory frameworks in an Asian water management context. The overall focus is on how water can be managed efficiently, cost-effectively and equitably in various Asian countries. This book was based on a special issue of the International Journal of Water Resources Development. OECD Reviews of Evaluation and Assessment in Education Synergies for Better Learning An International Perspective on Evaluation and Assessment An International Perspective on Evaluation and Assessment** OECD Publishing **This report provides an international comparative analysis and policy advice to countries on how evaluation and assessment arrangements can be embedded within a consistent framework to improve the quality, equity and efficiency of school education. Applied Stochastic Differential Equations** Cambridge University Press **Stochastic differential equations are differential equations whose solutions are stochastic processes. They exhibit appealing mathematical properties that are useful in modeling uncertainties and noisy**

phenomena in many disciplines. This book is motivated by applications of stochastic differential equations in target tracking and medical technology and, in particular, their use in methodologies such as filtering, smoothing, parameter estimation, and machine learning. It builds an intuitive hands-on understanding of what stochastic differential equations are all about, but also covers the essentials of It calculus, the central theorems in the field, and such approximation schemes as stochastic Runge-Kutta. Greater emphasis is given to solution methods than to analysis of theoretical properties of the equations. The book's practical approach assumes only prior understanding of ordinary differential equations. The numerous worked examples and end-of-chapter exercises include application-driven derivations and computational assignments. MATLAB/Octave source code is available for download, promoting hands-on work with the methods. **The Commodification of Farm Animals** Springer Nature **This book examines how the developments in veterinary science, philosophy, economics and law converged during the nineteenth and early twentieth centuries to entrench farm animals along a commodification pathway. It covers two neglected areas of study; the importance of international veterinary conferences to domestic regimes and the influence of early global treaties that dealt with animal health on domestic quarantine measures. The author concludes by arguing that society needs to reconsider its understanding and the place of the welfare paradigm in animal production systems. As it presently stands, this paradigm can be used to justify almost any self-serving reason to abrogate ethical principles. The topic of this book will appeal to a wide readership; not only scholars, students and educators but also people involved in animal production, interested parties and experts in the animal welfare and animal rights sector, as well as policy-makers and regulators, who will find this work informative and thought-provoking. Introduction to Probability Models** Academic Press **Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poison processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition: 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams Updated data, and a list of commonly used notations and equations, a robust ancillary package, including a ISM, SSM, and test bank Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field Hallmark features: Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics Sensitivity Analysis in Practice A Guide to Assessing Scientific Models** John Wiley & Sons **Sensitivity analysis should be considered a pre-requisite for statistical model building in any scientific discipline where modelling takes place. For a non-expert, choosing the method of analysis for their model is complex, and depends on a number of factors. This book guides the non-expert through their problem in order to enable them to choose and apply the most appropriate method. It offers a review of the state-of-the-art in sensitivity analysis, and is suitable for a wide range of practitioners. It is focussed on the use of SIMLAB – a widely distributed freely-available sensitivity analysis software package developed by the authors – for solving problems in sensitivity analysis of statistical models. Other key features: Provides an accessible overview of the current most widely used methods for sensitivity analysis. Opens with a detailed worked example to explain the motivation behind the book. Includes a range of examples to help illustrate the concepts discussed. Focuses on implementation of the methods in the software SIMLAB - a freely-available sensitivity analysis software package developed by the authors. Contains a large number of references to sources for further reading. Authored by the leading authorities on sensitivity analysis. Commerce Business Daily Mechanics of Sheet Metal Forming** Butterworth-Heinemann **Material properties -- Sheet deformation processes -- Deformation of sheet in plane stress -- Simplified stamping analysis -- Load instability and tearing -- Bending of sheet -- Simplified analysis of circular shells -- Cylindrical deep drawing -- Stretching circular shells -- Combined bending and tension of sheet -- Hydroforming. Monetary Policy, Inflation, and the Business Cycle An Introduction to the New Keynesian Framework and Its Applications - Second Edition** Princeton University Press **The classic introduction to the New Keynesian economic model This revised second edition of Monetary Policy, Inflation, and the Business Cycle provides a rigorous graduate-level introduction to the New Keynesian framework and its applications to monetary policy. The New Keynesian framework is the workhorse for the analysis of monetary policy and its implications for inflation, economic fluctuations, and welfare. A backbone of the new generation of medium-scale models under development at major central banks and international policy institutions, the framework provides the theoretical underpinnings for the price stability–oriented strategies adopted by most central banks in the industrialized world. Using a canonical version of the New Keynesian model as a reference, Jordi Galí explores various issues pertaining to monetary policy's design, including optimal monetary policy and the desirability of simple policy rules. He analyzes several extensions of the baseline model, allowing for cost-push shocks, nominal wage rigidities, and open economy factors. In each case, the effects on monetary policy are addressed, with emphasis on the desirability of inflation-targeting policies. New material includes the zero lower bound on nominal interest rates and an analysis of unemployment's significance for monetary policy. The most up-to-date introduction to the New Keynesian framework available A single benchmark**

model used throughout New materials and exercises included An ideal resource for graduate students, researchers, and market analysts KS1 English Grammar, Punctuation and Spelling Automating Manufacturing Systems with Plcs Lulu.com An in depth examination of manufacturing control systems using structured design methods. Topics include ladder logic and other IEC 61131 standards, wiring, communication, analog IO, structured programming, and communications.Allen Bradley PLCs are used extensively through the book, but the formal design methods are applicable to most other PLC brands.A full version of the book and other materials are available on-line at http://engineeronadisk.com Migrants at Work Immigration and Vulnerability in Labour Law OUP Oxford There is a highly significant and under-considered intersection and interaction between migration law and labour law. Labour lawyers have tended to regard migration law as generally speaking outside their purview, and migration lawyers have somewhat similarly tended to neglect labour law. The culmination of a collaborative project on 'Migrants at Work' funded by the John Fell Fund, the Society of Legal Scholars, and the Research Centre at St John's College, Oxford, this volume brings together distinguished legal and migration scholars to examine the impact of migration law on labour rights and how the regulation of migration increasingly impacts upon employment and labour relations. Examining and clarifying the interactions between migration, migration law, and labour law, contributors to the volume identify the many ways that migration law, as currently designed, divides the objectives of labour law, privileging concerns about the labour supply and demand over worker-protective concerns. In addition, migration law creates particular forms of status, which affect employment relations, thereby dividing the subjects of labour law. Chapters cover the labour laws of the UK, Australia, Ireland, Israel, Italy, Germany, Sweden, and the US. References are also made to discrete practices in Brazil, France, Greece, New Zealand, Mexico, Poland, and South Africa. These countries all host migrants and have developed systems of migration law reflecting very different trajectories. Some are traditional countries of immigration and settlement migration, while others have traditionally been countries of emigration but now import many workers. There are, nonetheless, common features in their immigration law which have a profound impact on labour law, for instance in their shared contemporary shift to using temporary labour migration programmes. Further chapters examine EU and international law on migration, labour rights, human rights, and human trafficking and smuggling, developing cross-jurisdictional and multi-level perspectives. Written by leading scholars of labour law, migration law, and migration studies, this book provides a diverse and multidisciplinary approach to this field of legal interaction, of interest to academics, policymakers, legal practitioners, trade unions, and migrants' groups alike. Lectures on Justice, Police, Revenue and Arms Delivered in the University of Glasgow A Malayalam and English Dictionary: The vowels A.V. Dicey and the Common Law Constitutional Tradition A Legal Turn of Mind Cambridge University Press Offers a distinctive account of the rule of law and legislative sovereignty within the work of Albert Venn Dicey. Deductive Software Verification – The KeY Book From Theory to Practice Springer Static analysis of software with deductive methods is a highly dynamic field of research on the verge of becoming a mainstream technology in software engineering. It consists of a large portfolio of - mostly fully automated - analyses: formal verification, test generation, security analysis, visualization, and debugging. All of them are realized in the state-of-art deductive verification framework KeY. This book is the definitive guide to KeY that lets you explore the full potential of deductive software verification in practice. It contains the complete theory behind KeY for active researchers who want to understand it in depth or use it in their own work. But the book also features fully self-contained chapters on the Java Modeling Language and on Using KeY that require nothing else than familiarity with Java. All other chapters are accessible for graduate students (M.Sc. level and beyond). The KeY framework is free and open software, downloadable from the book companion website which contains also all code examples mentioned in this book. Materials for Architects and Builders Routledge Materials for Architects and Builders provides a clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture, key physical properties, specification and uses. Understanding the basics of materials is a crucial part of undergraduate and diploma construction or architecture-related courses, and this established textbook helps the reader to do just that with the help of colour photographs and clear diagrams throughout. This new edition has been completely revised and updated to include the latest developments in materials research, new images, appropriate technologies and relevant legislation. The ecological effects of building construction and lifetime use remain an important focus, and this new edition includes a wide range of energy saving building components. An Introduction to the Study of the Law of the Constitution Springer A starting point for the study of the English Constitution and comparative constitutional law, The Law of the Constitution elucidates the guiding principles of the modern constitution of England: the legislative sovereignty of Parliament, the rule of law, and the binding force of unwritten conventions. Culinary Linguistics The chef's special John Benjamins Publishing Language and food are universal to humankind. Language accomplishes more than a pure exchange of information, and food caters for more than mere subsistence. Both represent crucial sites for socialization, identity construction, and the everyday fabrication and perception of the world as a meaningful, orderly place. This volume on Culinary Linguistics contains an introduction to the study of food and an extensive overview of the literature focusing on its role in interplay with language. It is the only publication fathoming the field of food and food-related studies from a linguistic perspective. The research articles assembled here encompass a number of linguistic fields, ranging from historical and ethnographic approaches to literary studies, the teaching of English as a foreign language, psycholinguistics, and the study of computer-mediated communication, making this volume compulsory reading for anyone interested in genres of food discourse and the linguistic connection between food and culture. Now Open Access as part of the Knowledge Unlatched 2017 Backlist Collection. Asia-Pacific Marketing Information Sourcebook Euromonitor Publications This sourcebook is the ideal resource to consult when researching Asian markets. It provides full contact details for more than 2,000 business information providers, including trade associations, national statistical offices, government departments, business information libraries, trade and business journals and business websites. It is easy to see how it can help improve research effectiveness, it offers an at-a-

glance guide to information publishers across nearly 100 market sectors. 3264 and All That A Second Course in Algebraic Geometry Cambridge University Press 3264, the mathematical solution to a question concerning geometric figures. A Book on C Programming in C Benjamin-Cummings Publishing Company The authors provide clear examples and thorough explanations of every feature in the C language. They teach C vis-a-vis the UNIX operating system. A reference and tutorial to the C programming language. Annotation copyrighted by Book News, Inc., Portland, OR Development and Modern Industrial Policy in Practice Issues and Country Experiences Edward Elgar Publishing Development and Modern Industrial Policy in Practice provides an up-to-date analysis of industrial policy. Modern industrial policy refers to the set of actions and strategies used to favor the more dynamic sectors of the economy. A key aspect of moder The Science of Paediatrics: MRCPCH Mastercourse Elsevier Health Sciences This book is "innovative and original in assisting the reader to apply the principles of science to paediatric practice . Professor Neena Modi, President, Royal College of Paediatrics and Child Health. The Science of Paediatrics, MRCPCH Mastercourse, provides essential background preparation for the MRCPCH Theory and Science examination. It contains an up-to-date review of the application of science to everyday paediatric clinical practice, whether it is interpreting clinical signs or investigations, prescribing drugs or identifying best management. Although this understanding is essential in order to make informed clinical decisions, it is diffi cult to obtain as it is not usually covered in clinical textbooks. Key features • MRCPCH exam-format questions embedded in each chapter to test understanding • Emphasis on embryology to explain many congenital abnormalities • An overview of the relevant anatomy and physiology • Focus on the application and interpretation of investigations • Examples of recent advances in science and clinical research that have benefi tted the children's care • All clinical specialties covered by paediatric specialists. • Chapters covering evidence-based paediatrics, statistics, ethics and quality improvement. Mathematics for Computer Science This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions. Seifert and Threlfall, A Textbook of Topology Academic Press Seifert and Threlfall, A Textbook of Topology Advanced Paediatric Life Support A Practical Approach to Emergencies John Wiley & Sons Advanced Paediatric Life Support is the internationally renowned manual on emergency paediatric care, written to support the course run by the Advanced Life Support Group. Using their structured approach, a tried and tested practical method of treating children during the crucial first few hours of a life threatening illness or injury, Advanced Paediatric Life Support is used by doctors, nurses and allied health professionals dealing with emergencies in children. Its clear layout and straightforward style make it a highly practical tool both for training and in the event of an emergency. The sixth edition includes major new features bringing it right up to date, including: The latest International Liaison Committee on Resuscitation (ILCOR) 2015 Guidelines The latest consensus guidelines on paediatric trauma Enhanced discussions on the importance of human factors A new and improved design including full colour photographs and diagrams Free access to the Wiley E-Text With this book at hand, all those providing care during paediatric emergencies can be confident in having comprehensive and authoritative guidance on the recognition and management of life threatening conditions necessary to save a child's life. This title is also available as a mobile App from MedHand Mobile Libraries. Buy it now from iTunes, Google Play or the MedHand Store. The Essential Handbook for GP Training and Education CRC Press The much anticipated practical educational manual for General Practice (GP) trainers, programme directors, and other teachers and educators in primary care has finally arrived. This extensive, full-colour guide is written by a select group of hands-on educators who are passionate and knowledgeable. The book captures their wisdom and vast experience in an accessible and practical way. Although it's aimed at GP training, there are many chapters in this book that are relevant and transferrable to teachers and educators in areas outside of General Practice (and worldwide). We are sure that GP appraisers, Foundation Year trainers and other medical/nursing student educators will find the detailed comprehensive explorations inspirational. Beautifully presented, the chapters cover a wide educational framework employing a variety of presentational methods such as flowcharts, diagrams, conversational pieces, scenarios and anecdotes. Each chapter has a corresponding webpage containing over 300 additional resources - providing practical tools as well as additional reading material. This book was awarded the Royal College of GP's 'Paul Freeling Prize' in 2013 for merititious work in the field of General Practice education. It is also used as the foundation textbook for the Postgraduate Certificate in Medical Education (PGCE) in at least seven UK universities. The Essential Handbook for GP Training and Education adopts a relaxed, personable approach to primary care education that won't leave you with a headache. Acute Rheumatic Fever and Rheumatic Heart Disease, E-Book Elsevier Health Sciences Acute Rheumatic Fever and Rheumatic Heart Disease is a concise, yet comprehensive, clinical resource highlighting must-know information on rheumatic heart disease and acute rheumatic fever from a global perspective. Covering the major issues dominating the field, this practical resource presents sufficient detail for a deep and thorough understanding of the latest treatment options, potential complications, and disease management strategies to improve patient outcomes. Divided into four distinct sections for ease of navigation: Acute Rheumatic Fever, Rheumatic Heart Disease, Population-Based Strategies for Disease Control, and Acute and Emergency Presentations. International editors and chapter authors ensure a truly global perspective. Covers all clinical aspects, including epidemiology, pathophysiology, clinical features, diagnosis, management, and treatment. Includes key topics on population-based measures for disease control for effective primary, secondary, and tertiary prevention. Consolidates today's available information and guidance into a single, convenient resource. Handbook on Nuclear Law Implementing Legislation This handbook is a practical aid to legislative drafting that brings together, for the first time, model texts of provisions covering all aspects of nuclear law in a consolidated form. Organised along the same lines as the Handbook on Nuclear Law,

published by the IAEA in 2003, and containing updated material on new legal developments, this publication represents an important companion resource for the development of new or revised nuclear legislation, as well as for instruction in the fundamentals of nuclear law. It will be particularly useful for those Member States embarking on new or expanding existing nuclear programmes. English Language Education in a Global World Practices, Issues and Challenges With English becoming the world's foremost lingua franca, the pressure to improve English language education (ELE) has been steadily increasing. Consequently, the nature of ELE has changed drastically in the last decade. This has not only brought about a number of changes in the way English is taught and learnt, but it has also led to various innovative practices around the world. As a result, this edited book aims to shed light on the new theoretical and methodological developments in the field of ELE as well as the major issues and difficulties faced by practitioners in different parts of the globe. One very important variable that the book takes into account is the role that English already plays in a particular society since this may affect the views that teachers and students hold of the language. This in turn can significantly influence the way English is taught and learnt in given political, economic and socio-cultural settings. The purpose of this book is therefore to provide a comprehensive overview of the pedagogical methods, policies and problems that underlie English language education in ten different regions across the world, including: the USA, Canada, the UK, Australia, New Zealand, India, Singapore, Japan, China and Hong Kong. In doing so, the different chapters in the book emphasize the importance of responding to linguistic and other forms of diversity in order to develop English language education in a globalized world. This book will be useful for teachers and students of English language, for English language curriculum and materials developers, and for those involved in educational policy-making and language acquisition research. Written by experts in the field, the range of content covered in the book's chapters will also help policy-makers, researchers and practitioners develop effective English language education practices and policies, and propose solutions to emerging issues in English language teaching and learning in different environments around the world. The newly-developed arguments and concerns pertaining to English language education will serve as future reference for professionals interested in this area of expertise. Decompositions of Manifolds Academic Press Decompositions of Manifolds Fault-Diagnosis Systems An Introduction from Fault Detection to Fault Tolerance Springer Science & Business Media With increasing demands for efficiency and product quality plus progress in the integration of automatic control systems in high-cost mechatronic and safety-critical processes, the field of supervision (or monitoring), fault detection and fault diagnosis plays an important role. The book gives an introduction into advanced methods of fault detection and diagnosis (FDD). After definitions of important terms, it considers the reliability, availability, safety and systems integrity of technical processes. Then fault-detection methods for single signals without models such as limit and trend checking and with harmonic and stochastic models, such as Fourier analysis, correlation and wavelets are treated. This is followed by fault detection with process models using the relationships between signals such as parameter estimation, parity equations, observers and principal component analysis. The treated fault-diagnosis methods include classification methods from Bayes classification to neural networks with decision trees and inference methods from approximate reasoning with fuzzy logic to hybrid fuzzy-neuro systems. Several practical examples for fault detection and diagnosis of DC motor drives, a centrifugal pump, automotive suspension and tire demonstrate applications.