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Although sequent calculi constitute an important category of proof systems, they are not as well known as axiomatic and natural deduction systems. Addressing this deficiency, *Proof Theory: Sequent Calculi and Related Formalisms* presents a comprehensive treatment of sequent calculi, including a wide range of variations. It focuses on sequent calculi for various non-classical logics, from intuitionistic logic to relevance logic, linear logic, and modal logic. In the first chapters, the author emphasizes classical logic and a variety of different sequent calculi for

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classical and intuitionistic logics. She then presents other non-classical logics and meta-logical results, including decidability results obtained specifically using sequent calculus formalizations of logics. The book is suitable for a wide audience and can be used in advanced undergraduate or graduate courses. Computer scientists will discover intriguing connections between sequent calculi and resolution as well as between sequent calculi and typed systems. Those interested in the constructive approach will find formalizations of intuitionistic logic and two calculi for linear logic. Mathematicians and philosophers will welcome the treatment of a range of variations on calculi for classical logic. Philosophical logicians will be interested in the calculi for relevance

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logics while linguists will appreciate the detailed presentation of Lambek calculi and their extensions.

An edited volume on factors determining success or failure of energy technology innovation, for researchers and policy makers.

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understand language and a plethora of examples to aid your understanding. The 12th edition is updated to be fully compliant with International Financial Reporting Standards (IFRS). Other updates include new coverage of professional ethics, disaster recovery, and over 70 new examples to test your understanding. ‘ A benchmark for all accounting books. ’ Sarah Knight, former Finance Courses Coordinator, Huntingdonshire Regional College

‘ The writing style of the book is ‘ ‘ spot-on ’ ’ and just the right tone – well done! I consider all chapters to be at the appropriate level, very practical and structured in manageable ‘ ‘ bite-sized ’ ’ chunks. ’ Alison Fox, Lecturer, University of Dundee This title can be supported by MyAccountingLab, an

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including texting, e-mail, social media, and new technology, so you can communicate correctly in any format. Whether your skills need drastic improvement or a quick brush-up, The McGraw-Hill Handbook of English Grammar and Usage will get your grammar back on the right track with: Straightforward explanations of common mistakes and why they happen Hundreds of correct and incorrect sentence examples, with errors clearly marked Quick tips for fixing your most stubborn grammatical mishaps Catchy memory aids for writing correctly the first time

More Food: Road to Survival is a comprehensive analysis of agricultural improvements which can be achieved through scientific methods. This reference book gives information about strategies for increasing plant productivity, comparisons of agricultural

models, the role of epigenetic events on crop production, yield enhancing physiological events (photosynthesis, germination, seedling emergence, seed properties, etc.), tools enabling efficient exploration of genetic variability, domestication of new species, the detection or induction of drought resistance and apomixes and plant breeding enhancement (through molecularly assisted breeding, genetic engineering, genome editing and next generation sequencing). The book concludes with a case study for the improvement of small grain cereals. Readers will gain an understanding of the biotechnological tools and concepts central to sustainable agriculture More Food: Road to Survival is, therefore, an ideal reference for agriculture students and researchers as well as professionals involved sustainability studies.

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This workbook is designed to build proficiency in algebra for students who want to progress beyond algebra at Level 2, or achieve a GCSE Mathematics Grade A or A, or move with confidence into AS Mathematics.*

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Animals Short Course B

Disciple IV

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*An engaging and
comprehensive tour of the*

world of diversity in the workplace. Authoritative, yet witty and well told, this important book is a vital navigational tool for anyone getting to grips with the importance of diversity across the spectrum of today's society. Demystifying Diversity is aimed at anyone with a line management responsibility at any level of management, business professionals and HR practitioners.

The Eighth Doctor faces new perils in this bumper collection of classic comic adventures This volume features eight amazing stories: "The Fallen," "Unnatural Born Killers,"

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"The Road to Hell," "The Company of Thieves," "The Glorious Dead," "The Autonomy Bug," "Happy Deathday," and "TV Action " Also included are two bonus stories from the early days of "Doctor Who Weekly," "Throwback: The Soul of a Cyberman" and "Ship of Fools," telling the origins of Kroton the Cyberman And, a special six-page, behind-the-scenes feature where writers Scott Gray, Alan Barnes, and Adrian Salmon reveal background information on the stories' origins, alongside never-before-seen sketches and character designs from Salmon and fellow artists

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*Martin Geraghty and Roger
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essential throughout
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Positioning System (GPS), in healthcare, medical and many other sciences. Whether you're seeking to strengthen your skills or enter the field for the first time, Radio Frequency and Microwave Electronics Illustrated is the fastest way to master every key measurement, electronic, and design principle you need to be effective. Dr. Matthew Radmanesh uses easy mathematics and a highly graphical approach with scores of examples to bring about a total comprehension of the subject. Along the way, he clearly introduces everything from wave propagation to impedance

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*matching in transmission
line circuits, microwave
linear amplifiers to hard-
core nonlinear active
circuit design in Microwave
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scientific framework for
learning RF and microwaves
easily and effectively
Fundamental RF and microwave
concepts and their
applications The
characterization of two-port
networks at RF and
microwaves using S-
parameters Use of the Smith
Chart to simplify analysis
of complex design problems
Key design considerations
for microwave amplifiers:
stability, gain, and noise*

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Workable considerations in the design of practical active circuits: amplifiers, oscillators, frequency converters, control circuits RF and Microwave Integrated Circuits (MICs) Novel use of "live math" in circuit analysis and design Dr. Radmanesh has drawn upon his many years of practical experience in the microwave industry and educational arena to introduce an exceptionally wide range of practical concepts and design methodology and techniques in the most comprehensible fashion. Applications include small-signal, narrow-band, low noise, broadband and

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multistage transistor amplifiers; large signal/high power amplifiers; microwave transistor oscillators, negative-resistance circuits, microwave mixers, rectifiers and detectors, switches, phase shifters and attenuators. The book is intended to provide a workable knowledge and intuitive understanding of RF and microwave electronic circuit design. Radio Frequency and Microwave Electronics Illustrated includes a comprehensive glossary, plus appendices covering key symbols, physical constants, mathematical

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*identities/formulas,
classical laws of
electricity and magnetism,
Computer-Aided-Design (CAD)
examples and more. About the
Web Site The accompanying
web site has an "E-Book"
containing actual design
examples and methodology
from the text, in Microsoft
Excel environment, where
files can easily be
manipulated with fresh data
for a new design.*

*A Handbook to Navigate
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Develop students' communication skills, confident in the knowledge that all syllabus requirements are being met with this unique book and accompanying website package. - The organisation of the content allows students to move from the known to the unknown, facilitating a progressive approach to learning and ensuring key topics are built upon in each chapter - A dedicated assessment section assists with both the Internal Assessment portfolio and exam preparation, providing invaluable and practical support for both students and teachers alike - Exclusive online content is delivered in an engaging and interactive way to enable accessible revision of topics

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and to bring variety to learning with videos and quizzes "Any student who is preparing for the CAPE Communication Studies exam will find this text an asset. I can confidently say that if students follow the guidance given in this book, they will be successful." Winifred Ellis, Vice Principal of Saint Joseph High School, Guyana, and member of the subject panel for Communication Studies. As of January 2015 this and other selected titles for Caribbean schools became part of Hodder Education. This book is about the mechanisms of wealth creation, or what we like to think of as evolutionary "progress." The massive circular flow of goods and services between producers and consumers is not a perpetual motion machine; it has been dependent for the past 150 years on energy inputs

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from a finite storage of fossil fuels. In this book, you will learn about the three key requirements for wealth creation, and how this process acts according to physical laws, and usually after some part of the natural wealth of the planet has been exploited in an episode of "creative destruction." Knowledge and natural capital, particularly energy, will interact to power the human wealth engine in the future as it has in the past. Will it sputter or continue along the path of evolutionary progress that we have come to expect? Can the new immaterial wealth of information and ideas, which makes up the so-called knowledge economy, replace depleted natural wealth? These questions have no simple answers, but this masterful book will help you to understand the grand challenge of

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our time. Praise for Energy,
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“ ... people who run the modern world (politicians, economists and lawyers) have a very poor grasp of how it really works because they do not understand the fundamentals of energy, exergy and entropy ... those decision-makers would greatly benefit from reading this book ... ” -

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A grandiose design; impressive, worth reading and reflecting! ” - Prof.

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must read for concerned citizens and decision makers across the globe. ” -

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RK Pachauri, Founder and Executive Vice Chairman, The Energy and Resources Institute (TERI) and ex-chair, International Panel on Climate Change (IPCC)

Do you want to understand Neural Networks and learn everything about them but it looks like it is an exclusive club? Are you fascinated by Artificial Intelligence but you think that it would be too difficult for you to learn? If you think that Neural Networks and Artificial Intelligence are the present and, even more, the future of technology, and you want to be part of it... well you are in the right place, and you are looking at the right book. If you are reading these lines you have probably already noticed this: Artificial Intelligence is all around you. Your smartphone that suggests you the next word you want to type,

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your Netflix account that recommends you the series you may like or Spotify's personalised playlists. This is how machines are learning from you in everyday life. And these examples are only the surface of this technological revolution. Either if you want to start your own AI enterprise, to empower your business or to work in the greatest and most innovative companies, Artificial Intelligence is the future, and Neural Networks programming is the skill you want to have. The good news is that there is no exclusive club, you can easily (if you commit, of course) learn how to program and use neural networks, and to do that Neural Networks for Beginners is the perfect way. In this book you will learn: The types and components of neural networks The smartest way to approach neural

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network programming Why Algorithms are your friends The "three Vs" of Big Data (plus two new Vs) How machine learning will help you making predictions The three most common problems with Neural Networks and how to overcome them Even if you don't know anything about programming, Neural Networks is the perfect place to start now. Still, if you already know about programming but not about how to do it in Artificial Intelligence, neural networks are the next thing you want to learn. And Neural Networks for Beginners is the best way to do it. Download Neural Network for Beginners now to get the best start for your journey to Artificial Intelligence. Scroll to the top of the page and click the BUY NOW button. A motor vehicle technician has to

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attain high technological skills to enable him or her to diagnose faults and service modern transport vehicles and their components.

Science is a branch of study concerned with the systematic investigation of observed facts, and forms an important foundation on which to build sound engineering practice. Such a background will stimulate personal development by increasing confidence and intellectual ability. This is the first of two books planned to cover the TEE U77/413 and 415 Motor Vehicle Science II and III Model programmes of study. Part 1 is intended to cover the requirements of Motor Vehicle Science II. The fundamental principles of engineering science have been applied to the motor vehicle in a systematic and progressive manner

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to enable the reader to follow most of the work on his or her initiative. The book is aimed mainly at the student who is attending a recognized college course leading to a Technician qualification. The importance of the college lecturer and his individual method of teaching the subject remains of prime importance to the student. The book is designed to become a valid source of information to assist the student both in and out of the classroom environment to attain his or her objective. Numerous fully worked and exercise examples are given. Plenty of practice in solving problems is an excellent way to gain knowledge of the subject, and improve confidence in preparation for an examination.

OCR Chemistry

Radio Frequency and Microwave

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concepts away from the
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step support through
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- Develop advanced calculator skills with links to extra online material designed to enhance understanding and develop checking strategies using a

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Combines clear and concise

explanations and analysis of

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with frequent examples that

show the application of those

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concepts to real-world situations. Exercises throughout the book enable students to engage in economic analysis in an active way that assists learning. Comprehensive coverage of the specification content Explains key terms and concepts Includes real-world examples Features regular summaries throughout each chapter for quick revision Provides exercises to engage students in economic analysis The book is supported by a Teacher Guide (9780340948064), including full commentary on the exercises

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together with additional questions and discussion points.

This is a tale of a street dog named Maca who becomes separated from his family and has to go it alone. On his journey, Maca is given a red bandana and is inspired by his gift to help animals and people alike as he uses his bandana to solve each problem he comes across. Maca learns that with love and kindness, anything is possible.

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discussion type questions), exam-style questions, step-by-step instructions and example answers that all ensure skills are developed alongside knowledge - Follow a structured route through the course with in-depth coverage of the full syllabus Also available in the series: Cambridge International AS Level Information Technology Student Book eBook 9781398333932 Cambridge International AS Level Information Technology Skills Workbook 9781510483064 Despite the many benefits of energy, most of which are

reflected in energy market prices, the production, distribution, and use of energy causes negative effects. Many of these negative effects are not reflected in energy market prices. When market failures like this occur, there may be a case for government interventions in the form of regulations, taxes, fees, tradable permits, or other instruments that will motivate recognition of these external or hidden costs. The Hidden Costs of Energy defines and evaluates key external costs and benefits that are associated with the

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production, distribution, and use of energy, but are not reflected in market prices. The damage estimates presented are substantial and reflect damages from air pollution associated with electricity generation, motor vehicle transportation, and heat generation. The book also considers other effects not quantified in dollar amounts, such as damages from climate change, effects of some air pollutants such as mercury, and risks to national security. While not a comprehensive guide to policy, this analysis indicates that major initiatives

to further reduce other emissions, improve energy efficiency, or shift to a cleaner electricity generating mix could substantially reduce the damages of external effects. A first step in minimizing the adverse consequences of new energy technologies is to better understand these external effects and damages. The Hidden Costs of Energy will therefore be a vital informational tool for government policy makers, scientists, and economists in even the earliest stages of research and development on energy technologies.

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Method

Sequent Calculi and Related
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and Deep Learning

DISCIPLE IV UNDER THE
TREE OF LIFE is the final study
in the four-phase DISCIPLE
program and is prepared for
those who have completed
BECOMING DISCIPLES

THROUGH BIBLE STUDY. The study concentrates on the Writings (Old Testament books not in the Torah or the Prophets), the Gospel of John, and Revelation. Emphasis on the Psalms as Israel's hymnbook and prayer book leads natural to an emphasis on worship in the study. Present through the entire study is the sense of living toward completion - toward the climax of the message and the promise, extravagantly pictured in Revelation. The image of the tree and the color gold emphasize the prod and promise in the Scriptures for DISCIPLE IV: UNDER THE TREE OF LIFE.

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Four of the five videos in this set contain video segments of approximately ten minutes each that serve as the starting point for discussion in weekly study sessions. The fifth video is the

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mathematics to other subjects and modelling real-world situations. - Reinforce learning with opportunities for digital practice via links to the Mathematics in Education and Industry's (MEI) Integral platform in the eTextbooks.* *To have full access to the eTextbooks and Integral resources you must be subscribed to both Dynamic Learning and Integral. To trial our eTextbooks and/or subscribe to Dynamic Learning, visit: www.hoddereducation.co.uk/dynamic-learning; to view samples of the Integral resources and/or subscribe to Integral, visit integralmaths.org/international

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Please note that the Integral resources have not been through the Cambridge International endorsement process. This book covers the syllabus content for Mechanics, including forces and equilibrium, kinematics of motion in a straight line, momentum, Newton's laws of motion, and energy, work and power.

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Leonard Jazz Piano Method is a comprehensive and easy-to-use guide designed for anyone interested in playing jazz piano from the complete novice just learning the basics to the more advanced player who wishes to enhance their keyboard vocabulary. There are lots of fun progressions and licks for you to play and absorb. The accompanying audio includes demonstrations of all the examples in the book! Topics include essential theory, chords and voicings, improvisation ideas, structure and forms, scales and modes, rhythm basics, interpreting a lead sheet,

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playing solos, and much more!
Simple text in English and
Russian, with phonetic
respellings of the expressions in
Russian, invites the reader to
learn the Russian terms for
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Maximization

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***This book makes the
mathematical basis of***

formal methods accessible both to the student and to the professional. It is motivated in the later chapters by examples and exercises. Throughout, the premise is that mathematics is as essential to design and construction in software engineering as it is to other engineering disciplines. The exercises range from simple drills, intended to provide familiarity with concepts and notation, to advanced material. The first four

chapters of the book are devoted to foundations, with an introduction to formal systems, then the propositional and predicate calculi, concluding with a chapter on theories in general. The second part of the book builds upon the foundations by covering in detail the theory of sets, relations, functions, and sequences. The mathematical data types then presented are powerful enough to describe many aspects of software systems, and

small case studies are included as examples of their use in the modelling of software: a configuration manager, a storage allocator, and a simple backing store interface. The concrete syntax of the Z notation has been adopted. The third part of the book presents two detailed case studies in the use of mathematics in software engineering. The first is the specification of the behaviour of a telephone exchange, and the second illustrates the importance

of the development of a mathematical theory in gaining an understanding of a system. Both case studies stress the roles of modelling and of proof in the construction of specifications. The final part describes the algebraic approach to specification and then summarizes and compares the various formal techniques. Easing the transition from GCSE to AS level, this textbook meets the 2004 Edexcel specifications and

provides numerous worked examples and solutions to aid understanding of key concepts.

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Includes plenty of
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Contains extension
material to stretch more
able students -
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of each section
illustration applications
of the work covered - ICT
is an integral part of the
course, with ICT activities
at the end of each section
Book 1a introduces Peter
and Jane in 16 new words
including 'and', 'I', 'likes'
and 'has'. Once this book
has been completed, the
child moves on to book***

1b.

***Cambridge International
AS Level Information
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My First Russian Phrases

Checkpoint Maths

Core Mathematics C3

Biology 12

Energy Technology

Innovation

This is one of the most significant military books of the twentieth century. By an outstanding soldier of independent mind, it pushed forward the evolution of land warfare and was directly responsible for German

armoured supremacy in the early years of the Second World War. Published in 1937, the result of 15 years of careful study since his days on the German General Staff in the First World War, Guderian's book argued, quite clearly, how vital the proper use of tanks and supporting armoured vehicles would be in the conduct of a future war. When that war came, just two years later, he proved it, leading his Panzers with distinction in the Polish, French and Russian campaigns. Panzer warfare had come of age, exactly as he had forecast. This first English

translation of Heinz Guderian's classic book - used as a textbook by Panzer officers in the war - has an introduction and extensive background notes by the modern English historian Paul Harris.

"This book helps in raising and sustaining motivation for better grades. These books are the best possible match to the specification, motivating readers by making maths easier to learn. They include complete past exam papers and student-friendly worked solutions which build up to practice questions, for all round exam preparation. These books also feature real-

life applications of maths through the 'Life-links' and 'Why ...?' pages to show readers how this maths relates, presenting opportunities to stretch and challenge more apply students. Each book includes a Live Text CDROM which features: fully worked solutions examined step-by-step, animations for key learning points, and revision support through the Exam Cafe." --Publisher's description
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More Food: Road to Survival
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Kit**