

F2i Secures 3 1bn As First Fund Merges With Third

Sardonically funny and moving, *Skating to Antarctica* is a book about a journey into darkness and light, the colour white, fantasy and memory, families and sanity.

We all want cities, where more than half of the world's population currently live, to be just, successful, clean, fair, green, sustainable, safe, healthy and affordable. Will 'smart cities' help achieve these aspirations or undermine them in the time of COVID-19? Phil Allmendinger, a world expert on cities, development, and urban governance, takes a critical approach to the role of 'smart' in future cities and the relationship with city development. Considering how technology can support active citizenship, he challenges the commercial drivers of big tech and warns that these, not developments for 'social good', may dominate. Focusing on the dangers posed by social media, the platform economy and AI, he sets out what those making decisions on city development need to understand in order to save the planet through active politics and healthy cities.

A Concise Introduction to Pure Mathematics CRC Press

In this document the Government sets out a programme of action designed to position the UK as a long-term leader in communications, creating an industrial framework that will fully harness digital technology. The UK's digital dividend will transform the way business operates, enhance the delivery of public services, stimulate communications infrastructure ready for next-generation distribution and preserve Britain's status as a global hub for media and entertainment. This approach seeks to maximise the digital opportunities for all citizens. The report contains: (1) an analysis of the levels of digital participation, skills and access needed for the digital future, with a plan for increasing participation, and more coherent public structures to deal with it; (2) an analysis of communications infrastructure capabilities; (3) plans for the future growth of creative industries, proposals for a legal and regulatory framework for intellectual property and proposals on skills and investment support and innovation; (4) a restatement of the need for specific market intervention in the UK content market, with implications and challenges for the BBC and C4 Corporation and other forms of independent and suitably funded news; (5) an analysis of the skills, research and training markets, and what supply side issues need addressing for a fully functioning digital economy; (6) a framework for digital security and digital safety at international and national levels and recognition that a world of high speed connectivity needs a digital framework not an analogue one; (7) a review of what all of this means for the Government and how digital governance in the information age demands new structures, new safeguards, and new data management, access and transparency rules.

Wireless personal communications, or wireless as it is now being called, has arrived. The hype is starting to fade, and the hard work of deploying new systems and services for personal communications is underway. In the United States, the FCC propelled the wireless era from infancy to mainstream with a \$7.7 billion auction of 60 MHz of radio spectrum in the 1800-1900 MHz band. With the largest single sale of public property in the history of mankind mostly complete, the resources of the entire world are being called upon to develop inexpensive, rapidly deployable wireless systems and subscriber units for an industry that is adding

subscribers at greater than 50% annual rate. This growth is commonplace for wireless service companies throughout the world, and in the U.S., where as many as 7 licensed wireless service providers may be competing for cellular PCS customers within the next couple of years, differentiators in cost, quality, service, and coverage will become critical to customer acceptance and use. Many of these issues are discussed in the papers included in this book.

The enemies of English lawyer Roger Randolph kidnap him and put him aboard a ship for America. When it was attacked by Corsairs, he proved his mettle with a sword and became the new Captain, Black Roger. It was the Golden Age of Comics. Every week new publications would warp the minds of our youth, destroy (or save, depending on your point of view) the culture of America, and drain hard-earned dimes from the pockets of young boys and girls. A glorious time! Now you can enjoy again - or, for the first time The comic reprints from are reproduced from actual classic comics, and sometimes reflect the imperfection of books that are decades old. Many people enjoy these authentic characteristics.

Accessible to all students with a sound background in high school mathematics, *A Concise Introduction to Pure Mathematics, Fourth Edition* presents some of the most fundamental and beautiful ideas in pure mathematics. It covers not only standard material but also many interesting topics not usually encountered at this level, such as the theory of solving cubic equations; Euler's formula for the numbers of corners, edges, and faces of a solid object and the five Platonic solids; the use of prime numbers to encode and decode secret information; the theory of how to compare the sizes of two infinite sets; and the rigorous theory of limits and continuous functions. New to the Fourth Edition Two new chapters that serve as an introduction to abstract algebra via the theory of groups, covering abstract reasoning as well as many examples and applications New material on inequalities, counting methods, the inclusion-exclusion principle, and Euler's phi function Numerous new exercises, with solutions to the odd-numbered ones Through careful explanations and examples, this popular textbook illustrates the power and beauty of basic mathematical concepts in number theory, discrete mathematics, analysis, and abstract algebra. Written in a rigorous yet accessible style, it continues to provide a robust bridge between high school and higher-level mathematics, enabling students to study more advanced courses in abstract algebra and analysis.

Examines financial crises of the past and discusses similarities between these events and the current crisis, presenting and comparing historical patterns in bank failures, inflation, debt, currency, housing, employment, and government spending.

When Best Mate raced up the hill at Cheltenham in March 2004 to his third successive Gold Cup victory, he made history and became the most famous racehorse in Britain and Ireland. His trainer, Henrietta Knight, also became a superstar, her gentle yet determined personality endearing her to the sporting public. This is the first paperback edition of

Henrietta's already-bestselling book about the horse, his achievements and the personalities involved in them. Three brand new chapters and new photographs bring the story right up to date as Best Mate starts the new season and his quest for a fourth Gold Cup.

Information, Coding and Mathematics is a classic reference for both professional and academic researchers working in error-correction coding and decoding, Shannon theory, cryptography, digital communications, information security, and electronic engineering. The work represents a collection of contributions from leading experts in turbo coding, cryptography and sequences, Shannon theory and coding bounds, and decoding theory and applications. All of the contributors have individually and collectively dedicated their work as a tribute to the outstanding work of Robert J. McEliece. Information, Coding and Mathematics covers the latest advances in the widely used and rapidly developing field of information and communication technology.

For anyone who has ever loved, and lost, a dog. "Once In A Lifetime Dog, My Borisangel, "is the true, heartwarming story of Chantelle Hildreth's journey into adulthood with her dog, Boris, a massive, elegant white beast with more personality, grace and charm than most people you'll ever meet. He was her companion, best friend and, at her side, every step of the way. Boris was Chantelle's study partner through the rigors of law school, her backbone in her first teaching position, the inspiration for the purchase of her first home, the first child of her marriage and an infallible source of comfort and strength through the trials of her pregnancy. Boris was all-things good. He was the embodiment of love, friendship, happiness and hope. He was gentle and kind, but strong. Boris possessed the keen ability to know a person's true character. He was her protector always, even when she did not think she needed it. And, he was always right. "Once In A Lifetime Dog, My Borisangel, " is a true story of unconditional love, the heartache of loss and the astonishing and uncanny ability of the special animals in our lives to teach some of the most profound life lessons. It is a love story. A story of how much a dog loved his owner and just how much she loved him, a love that changed her forever. Boris stood by the one he loved, so in the end, when he left her, she could stand-alone. For anyone who has ever had that one special dog, this touching story will rekindle both the joy and the heartache we experienced and take us back to the unconditional love we felt for that ever so special friend, the one who truly was, a once in a lifetime dog. "This book is like a mirror, reflecting what we all feel when we truly love someone. It details the life, adventure and heartache of having a 'best friend.' The bond between dog and owner is vividly described and so beautifully depicted. It will leave you thinking about a bond you shared, but could never quite explain. You'll feel the heart-skipping joy and the never-ending emptiness we all feel when we love but then lose someone too soon. Dog lover or not, this is a love story that speaks to all of us." Allison Triarsi, KHOU TV News, Houston

First in Joseph Marshall's groundbreaking Lakota Westerns series, this riveting novel takes place during the Battle of the Hundred in the Hand, otherwise known as the Fetterman Massacre of 1866. The story comes alive through the eyes of Cloud, a dedicated warrior who fights alongside a young Crazy Horse during one of the coldest winters, as well as the white soldiers who mistake Cloud's redheaded wife for a captive. A beautifully written and fast-paced Western, Hundred in the Hand brings new depth to the story of the battle and the Lakota people.

This book constitutes the refereed proceedings of the 16th International Symposium on VLSI Design and Test, VDAT 2012, held in Shibpur, India, in July 2012. The 30 revised regular papers presented together with 10 short papers and 13 poster sessions were carefully selected from 135 submissions. The papers are organized in topical sections on VLSI design, design and modeling of digital circuits and systems, testing and verification, design for testability, testing memories and regular logic arrays, embedded systems: hardware/software co-design and verification, emerging technology: nanoscale computing and nanotechnology.

This book explores the evolution of the banking sector and the financing tools it fosters, addressing the impact of new regulations and the ensuing opportunities for financial institutions, firms, and individuals. Written in two parts, the project includes papers presented at the 2019 Annual Conference of the Wolpertinger Club - The European Association of University Teachers in Banking and Finance. The first part addresses the impact of policy changes on banks and financial institutions, particularly the impact of recent changes in European policy. The authors explore how policy has been, and is, communicated and how it shapes new incentives and challenges for the banking sector and institutional and individual investors. The book touches upon the debate on the 'bail-in' vs 'bail-out' options and reviews new opportunities for investors on covered and subordinated bond markets in Europe, covering the new regulatory structure provided by the European authorities. The second part explores new financing tools besides the traditional banking sector available to firms and individuals, examining financing options for firms and individuals, and describing the role that alternative capital-market tools such as mini bonds and crowdfunding are playing within the landscape of SME financing. Arguing that financing decisions can ultimately affect the survival rate of startups, this edited collection will be valuable to those researching both finance and business, but particularly to those studying banking, financial institutions and entrepreneurial finance.

Here, at last, is the book which Bo Selecta's millions of devoted fans have been waiting for. In it, Avid Merrion tells the story of his life, from earliest days as the son of a dracula impersonator, his first childhood celebrity obsessions and his first experiences of television, right through to today when he can call celebrities his friends (and he usually does). Includes all-new contributions from all the series' favourite characters - Michael Jackson, Mel B, Craig David and the gang, plus some of Avid's more recent pick-ups. Book Selecta will ensure that your Xmas is proper bo, I tell thee...

Higher transmission speeds, larger traffic volumes and the unpredictable characteristics of new applications, coupled with new end-user functions and features and variability of bandwidth, demand new networking methods, technologies and algorithms. These new directions are explored in Control and Performance in Packet, Circuit, and ATM Networks, which includes discussions of

static flow, fluid flow, dynamic flow, learning automata, neural networks, fuzzy logic and much more. These techniques are used in performance evaluation, control and optimization of communications networks. Each of the methods achieves a different goal, and understanding them helps in the evaluation of different aspects of control and performance in communication networks. The book combines queuing theory with static-flow models and static optimization methods in order to analyze the behavior of communication networks. In addition, it reviews queuing theory and static optimization methods for the study of control problems in telecommunication networks. A valuable reference that can also be used as a text for an advanced course on the subject.

The aim of this text and CD-ROM pack is to help teach the concepts and practicalities of using software tools in a variety of design situations in electrical and computer engineering and computer science. LogicWorks is a schematic drawing and interactive circuit simulation package, and this user-friendly interface aims to allow students to begin designing and testing circuits without the need for complex manuals. This edition contains features that expand the utility of the package beyond teaching digital design concepts and includes symbol libraries for the most commonly used devices.

Perspectives in Spread Spectrum brings together studies and recent work on six exciting topics from the spread spectrum arts. The book gives a wide, collective view of trends, ideas, and techniques in the spread spectrum discipline, due to the authors' extensive work on spread spectrum techniques and applications from different vantage points. The inexorable march of electronics towards ever faster, ever smaller, and ever more powerful electronic and optical circuitry has wrought, and will continue to enable, profound changes in the spread spectrum arts, by allowing increasingly complex signalling waveforms and statistical tests to be implemented as the theory beyond spread spectrum continues to evolve. Perspectives in Spread Spectrum is divided into six chapters. The first chapter deals with sequence spreading design. There is not a single metric for design of spreading sequences; rather, the design is ideally tailored to the specific scenario of usage. This chapter delves into recent and very promising synthesis work. The second chapter deals with OFDM techniques. As channels become wider and trans-channel fading (or jamming) becomes frequency selective across the band, OFDM techniques may provide a powerful alternative design perspective. The third chapter is a generalization of the venerable Walsh functions. A new modulation scheme, Geometric Harmonic Modulation, GHM for short, is reviewed and characterized as a form of OFDM. From GHM, a further generalization of the Walsh functions is derived for non-binary signalling. The fourth chapter is concerned with some new and exciting results regarding the follower jammer paradigm. A counter-countermeasure technique is reviewed, notable for its counterintuitive characteristic which can be understood from a simple yet elegant game framework. The fifth chapter recounts some results pertaining to random coding for an optical spread spectrum link. The technique is based on laser speckle statistics and uses a coherent array of spatial light modulators at the transmitter but allows the receiver to be realized as a spatially distributed radiometric and therefore incoherent structure. The sixth and final chapter looks at an important and interesting application of spread spectrum to accurately locate a wideband, 'bent pipe', satellite transponder. It is, in a strong sense, an inverted GPS technique. Perspectives in Spread Spectrum serves as an excellent reference and source of ideas for further research, and may be used as a text for advanced courses on the topic.

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Each chapter deals with a different technique from which we can best represent and make explicit the forms of knowledge used by designers. The book explores whether design knowledge is special, and attempts to get to the root of where design knowledge comes from. Crucially, it focuses on how designers use drawings in communicating their ideas and how they 'converse' with them as their designs develop. It also shows how experienced designers use knowledge differently to novices suggesting that design 'expertise' can be developed. Overall, this book builds a layout of the kinds of skill, knowledge and understanding that make up what we call designing.

Covering both theory and progressive experiments, Quantum Computing: From Linear Algebra to Physical Realizations explains how and why superposition and entanglement provide the enormous computational power in quantum computing. This self-contained, classroom-tested book is divided into two sections, with the first devoted to the theoretical aspects of quantum computing and the second focused on several candidates of a working quantum computer, evaluating them according to the DiVincenzo criteria. Topics in Part I Linear algebra Principles of quantum mechanics Qubit and the first application of quantum information processing—quantum key distribution Quantum gates Simple yet elucidating examples of quantum algorithms Quantum circuits that implement integral transforms Practical quantum algorithms, including Grover's database search algorithm and Shor's factorization algorithm The disturbing issue of decoherence Important examples of quantum error-correcting codes (QECC) Topics in Part II DiVincenzo criteria, which are the standards a physical system must satisfy to be a candidate as a working quantum computer Liquid state NMR, one of the well-understood physical systems Ionic and atomic qubits Several types of Josephson junction qubits The quantum dots realization of qubits Looking at the ways in which quantum computing can become reality, this book delves into enough theoretical background and experimental research to support a thorough understanding of this promising field.

The aim of this series is to provide a common ground between obstetricians and paediatricians, and to describe current practice in a way that is useful and relevant to both groups.

Second of two volumes providing a comprehensive guide to the current state of mathematical logic.

Ever since the Dead Sea Scrolls were unearthed in 1947, a small group of scholars has exerted a jealous control over access to the originals. This policy has hindered understanding of these priceless texts. Now expert Robert Feather exposes a shocking conspiracy at the heart of biblical and archaeological studies, and shines a bold--and sure to be controversial--light on the Scrolls, linking the isolated Essene cult at Qumran with Jesus Christ and the Ancient Egyptian pharaoh Akhenaten, founder of monotheism.

This is a straightforward text on RISC assembly language programming for MIPS computers - the microprocessor gaining popularity due to its compact and elegant instruction set. Enabling students to understand the internal working of a computer, courses in RISC are an increasingly popular option in assembly language programming.

Covers proposed construction and operation of gas production component of Arctic Pilot Project associated with Drake Point field on Melville Island in Canadian arctic. Four sections: project description, environmental description, environmental impact assessment, and environmental mitigation.

This is the fifth study in a series on the future costs of generating electricity. It reviews cost estimates for power plants using nuclear, coal, gas and renewable energy sources.

This book provides a state-of-the-art review of floating offshore wind turbines (FOWT). It offers developers a global

perspective on floating offshore wind energy conversion technology, documenting the key challenges and practical solutions that this new industry has found to date. Drawing on a wide network of experts, it reviews the conception, early design stages, load & structural analysis and the construction of FOWT. It also presents and discusses data from pioneering projects. Written by experienced professionals from a mix of academia and industry, the content is both practical and visionary. As one of the first titles dedicated to FOWT, it is a must-have for anyone interested in offshore renewable energy conversion technologies.

This new, revised edition covers all of the basic topics in calculus of several variables, including vectors, curves, functions of several variables, gradient, tangent plane, maxima and minima, potential functions, curve integrals, Green's theorem, multiple integrals, surface integrals, Stokes' theorem, and the inverse mapping theorem and its consequences. It includes many completely worked-out problems.

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