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051 - SANTOS DOWNS

This book addresses what software architects and developers need to know in order to build applications based on blockchain technology, by offering an architectural view of software systems that make beneficial use of blockchains. It provides guidance on assessing the suitability of blockchain, on the roles blockchain can play in an architecture, on designing blockchain applications, and on assessing different architecture designs and tradeoffs. It also serves as a reference on blockchain design patterns and design

analysis, and refers to practical examples of blockchain-based applications. The book is divided into four parts: Part I provides a general introduction to the topic and to existing blockchain platforms including Bitcoin, Ethereum, and Hyperledger Fabric, and offers examples of blockchain-based applications. Part II focuses on the functional aspects of software architecture, describing the main roles blockchain can play in an architecture, as well as its potential suitability and design process. It includes a catalogue of 15 design patterns and details how to use model-driven engineering to build blockchain-based applica-

tions. Part III covers the non-functional aspects of blockchain applications, which are cross-cutting concerns including cost, performance, security, and availability. Part IV then presents three detailed real-world use cases, offering additional insights from a practical perspective. An epilogue summarizes the book and speculates on the role blockchain and its applications can play in the future. This book focusses on the bigger picture for blockchain, covering the concepts and technical considerations in the design of blockchain-based applications. The use of mathematical formulas is limited to where they are critical. This

book is primarily intended for developers, software architects and chief information officers who need to understand the basic technology, tools and methodologies to build blockchain applications. It also provides students and researchers new to this field an introduction to this hot topic.

'The book provides a concise, informative, comprehensive, and current overview of key issues in the field of science communication, the background of science communication, its theoretical bases, and its links to science communication practice. Especially the link between theory / research and practice is very well developed in the book and in the individual chapters. I think that is valuable for both readers new to the field of science communication, but also for those who identify with only one of these sides ... it is indeed a comprehensive and concise overview, convincing in its aim to link theory, research, and practice and I will definitely use it for my lectures on science communication.'

JCOM - Journal of Science Communication
A concise, coherent and easily readable textbook about the field of science communication, connecting the practice of science communicators with theory. In the book,

recent trends and shifts in the field resonate, such as the transition from telling about science to interacting with the public and the importance of science communication in health and environmental communication. The chapters have been written by experts in their disciplines, coming from philosophy of science and communication studies to health communication and science journalism. Cases from around the world illustrate science communication in practice. The book provides a broad, up-to-date and coherent introduction to science communication for both, students of science communication and related fields, as well as professionals.

Related Link(s)
A Financial Times Best Business Book of the Year Named one of 10 Best New Management Books for 2022 by Thinkers50
"An advocate of sustainable capitalism explains how it's done" — The Economist
"Polman's new book with the sustainable business expert Andrew Winston...argues that it's profitable to do business with the goal of making the world better." — The New York Times
Named as recommended reading by Fortune's CEO Daily "...Polman has been one of the most significant chief executives of his era and that his ap-

proach to business and its role in society has been both valuable and path-breaking." — Financial Times
The ex-Unilever CEO who increased his shareholders' returns by 300% while ensuring the company ranked #1 in the world for sustainability for eleven years running has, for the first time, revealed how to do it. Teaming up with Andrew Winston, one of the world's most authoritative voices on corporate sustainability, Paul Polman shows business leaders how to take on humanity's greatest and most urgent challenges—climate change and inequality—and build a thriving business as a result. In this candid and straight-talking handbook, Polman and Winston reveal the secrets of Unilever's success and pull back the curtain on some of the world's most powerful c-suites. Net Positive boldly argues that the companies of the future will profit by fixing the world's problems, not creating them. Together the authors explode our most prevalent corporate myths: from the idea that business' only function is to maximise profits, to the naïve hope that Corporate Social Responsibility will save our species from disaster. These approaches, they argue, are destined for the graveyard. In-

stead, they show corporate leaders how to make their companies "Net Positive"—thriving by giving back more to the world than they take. Net Positive companies unleash innovation, build trust, attract the best people, thrill customers, and secure lasting success, all by helping create stronger, more inclusive societies and a healthier planet. Heal the world first, they argue, and you'll satisfy your investors as a result. With ambitious vision and compelling stories, Net Positive will teach you how to find the inner purpose and courage you need to embrace the only business model that will matter in the years ahead. You will learn how to lead others and unlock your company's soul, while setting and delivering big and aggressive goals, and taking responsibility for all of your company's impacts. You'll find out the secrets to partnering with others, including your competition and critics, to drive transformative change from which you will prosper. You'll build a company that serves your people, your customers, your communities, your shareholders—and your children and grandchildren will thank you for it. Is this win-win for business and humanity too good to be true? Don't believe it.

The world's smartest CEOs are already taking their companies on the Net Positive journey and benefitting as a result. Will you be left behind? Join the movement at netpositive.world

Chapters include: "Income distribution and welfare programs", "State and local government expenditures" and "Health economics and private health insurance".

This fifth edition of Trotman's Financial Accounting: An Integrated Approach incorporates comprehensive coverage of new issues in sustainability with a new chapter dedicated to current and emerging issues, while building upon the approachable, user-friendly, Australian-focused style of previous editions. This new edition continues to provide students with a detailed understanding of the accounting framework in a balanced and engaging approach that provides non-accounting majors with enough details to understand and analyse company financial statements and provides accounting majors with a sound basis for future studies in accounting. Drawing on topical source documents and newspaper articles, Financial Accounting: An Integrated Approach makes accounting inter-

esting and relevant.

Eldenburg's fourth edition of Management Accounting combines the basic technical issues associated with cost management, management accounting and control with more recent and emerging themes and issues. Management accounting is a compulsory element of the accounting major, and this text is written to cover the content typically taught in the two management accounting units offered in most accounting programs. The Management Accounting interactive e-text features a range of instructional media content designed to provide students with an engaging learning experience. This includes case videos, interactive problems and questions with immediate feedback. Eldenburg's unique resource can also form the basis of a blended learning solution for lecturers.

Professor Moffat has been a member of the academic staff at the University of Melbourne since 1987. This book has evolved out of his 20 years' teaching experience with first year students. The readable style is punctuated by more than 100 working programs and each chapter includes detailed case study, key points and exercises.

This is the first self-contained text to consider security and non-cooperative behavior in wireless networks. Major networking trends are analyzed and their implications explained in terms of security and cooperation, and potential malicious and selfish misdeeds are described along with the existing and future security techniques. Fundamental questions of security including user and device identification; establishment of security association; secure and cooperative routing in multi-hop networks; fair bandwidth distribution; and privacy protection are approached from a theoretical perspective and supported by real-world examples including ad hoc, mesh, vehicular, sensor, and RFID networks. Important relationships between trust, security, and cooperation are also discussed. Contains homework problems and tutorials on cryptography and game theory. This text is suitable for advanced undergraduates and graduate students of electrical engineering and computer science, and researchers and practitioners in the wireless industry. Lecture slides and instructor-only solutions available online (www.cambridge.org/9780521873710).

A comprehensively updated revision of a book regarded by many as one the leading and authoritative titles for practitioners, academics and students in the domain of information systems and technology (IS/IT) strategy. Presents a structured framework with tools, techniques and ways of thinking which provide a practical approach to building a digital strategy, expressed primarily in the language of business and management. Brings together the implications of the significant advances in IT and the most useful current thinking, research, and experiences concerning the business impact and strategic opportunities created by IS/IT. Peppard and Ward discuss the key questions that managers have to grapple with of where, when and how to invest in IS/IT, which is why a IS/IT (or digital) strategy is required.

Law and Justice in Australia is an 'introduction to law' textbook with a difference. It takes an historical, critical and contextual approach to law and justice and offers students a mix of stories, cases, article extracts and explanatory commentary with which to engage. This, with the author's natural narrative writing style, encourages students to develop an in-depth unders-

tanding of the legal system and creates a sound basis for further law study.

Organisational Behaviour: Engaging People and Organisations uses an integrative model to teach a robust approach to OB by encompassing five levels of analysis: environment, individual, groups, leadership and organisation, and demonstrating how each relates to one another. It teaches a contemporary approach to Organisational Behaviour that aims to understand, rather than control, human behaviour in organisations. Unique to this local edition is the inclusion of a 'critical perspective' of Organisational Behaviour introduced through in-chapter features and the end-of-chapter case study. This complements courses that teach mainstream theory and advance through to critical examination of the subject area. This approach presents a side of management that reflects real-world experiences in the workplace by challenging the managerial perspective and discussing issues for employees. Premium online teaching and learning tools are available on the MindTap platform. Learn more about the online tools cengage.com.au/mindtap

This book introduces one of the most pow-

erful tools of modern economics to a wide audience: those who will later construct or consume game-theoretic models. Robert Gibbons addresses scholars in applied fields within economics who want a serious and thorough discussion of game theory but who may have found other works overly abstract. Gibbons emphasizes the economic applications of the theory at least as much as the pure theory itself; formal arguments about abstract games play a minor role. The applications illustrate the process of model building--of translating an informal description of a multi-person decision situation into a formal game-theoretic problem to be analyzed. Also, the variety of applications shows that similar issues arise in different areas of economics, and that the same game-theoretic tools can be applied in each setting. In order to emphasize the broad potential scope of the theory, conventional applications from industrial organization have been largely replaced by applications from labor, macro, and other applied fields in economics. The book covers four classes of games, and four corresponding notions of equilibrium: static games of complete information and Nash equilibrium, dynamic

games of complete information and subgame-perfect Nash equilibrium, static games of incomplete information and Bayesian Nash equilibrium, and dynamic games of incomplete information and perfect Bayesian equilibrium.

In *Gendered Worlds*, the authors use the sociological imagination to explore gender relations throughout the world. They look at how concrete forms of gender, race, class, and sexual inequality operate transnationally; examine the impact of globalization on local and everyday life experiences; and identify how local actors re-imagine social possibilities, resist injustice, and work toward change. Integrating theory with empirical studies that are of particular interest to college students--including research on violence, sports, and sexuality--the authors make gender concepts genuinely interesting and accessible. They also demonstrate how students can think critically about gender, both within and beyond the classroom. Each chapter begins with an opening scenario about an individual experience of gender, and then traces how macro-level factors shape that micro experience. A section entitled "Gender Mat-

ters" follows each chapter to summarize the micro-macro connection.

The highly successful *Education, Change and Society* is now in its second edition and continues its purpose to help students situate educational activity in its broad social and policy contexts. In Australia the way that schools, school funding, school markets, universities and their responsibilities of government for education are organised have all been subject to radical reform in recent decades. It has never been more important for students of education to be able to understand the connections between the local and the global in explaining contemporary educational change. Every chapter not only describes and analyses what is going on, but each interprets the evidence in particular ways. Discussion of the issues raised in this book is encouraged, and students are given every opportunity to analyse and question. Questions raised in this book include: * How do Aboriginal students experience Australian schools? * Who writes policy documents and for what purpose in education? * Why did state, private and corporate schools emerge as they did in Australia? * How do social class and gender differences affect

schooling and its outcomes?* What constitutes the work of teachers, and can teachers 'make a difference'?* How has the role of research become increasingly significant in education and to teachers in particular?

The second edition of this distinctively Australian text continues to retain the hallmark features, resulting in it being the 2004 Category Winner for the 'Awards of Excellence in Educational Publishing'. This popular textbook continues to adopt a developmental focus for complex issues in teaching. As a valuable resource Educational Psychology addresses contemporary ideas in context of lifelong learning, vocational education and the dynamic use of information and communication technologies. By analysing educational psychology and the theories of development and learning this text will help you to: understand your own development and factors that have contributed to it; provide strategies to enhance the quality of your learning and motivation; guide your understanding of how learners learn and how educators can be more effective in their teaching practice; contribute to your personal philosophy of learning and teaching. If you are

aspiring to become a teacher or educational psychologist this is a must have text, written by experienced and renowned practitioners with backgrounds in teaching, educational psychology and child development.

Containing selected papers on Materials Characterisation this volume presents the latest research in the field. Material and contact characterisation is a rapidly advancing field that requires the application of a combination of numerical and experimental methods. Contributions come from both industry and research communities using computational methods and performing experiments. Demand for high quality production from both industry and consumers has led to rapid developments in materials science and engineering. Current research is focussed on modification technologies that can increase the surface durability of materials. The characteristics of the system reveal which surface engineering methods should be chosen and as a consequence it is essential to study the combination of surface treatment and contact mechanics. The accurate characterisation of the physical and chemical properties of materials requires the application of

both experimental techniques and computer simulation methods in order to gain a correct analysis. A very wide range of materials, starting with metals through polymers and semiconductors to composites, necessitates a whole spectrum of characteristic experimental techniques and research methods. The papers in this book examine various combinations of techniques across various topics.

The book uses Edinburgh syntax.

Chemistry, science, stoichiometry, thermodynamics, organic chemistry.

The University of New South Wales, from its gestation in the Sydney Technical College and its controversial beginnings in 1949, has grown into a diverse, innovative institution, one of Australia's premier universities - with, in 1999, a student population of 30,000 and a staff of 5,000. Since its foundation it has been a leading player in the redefining of traditional notions of university life and character in Australia, maintaining its contributions to public life and its continuing focus on the incorporation of change. The book sets out to capture the spirit and achievement of these first fifty years.

Cyberspace Law: Commentaries and Materials provides a comprehensive and detailed study of this fast moving field of law. It has been fully updated to reflect recent changes in legislation and includes new chapters on Internet Taxation, Uninvited Material and Massively Multiplayer Online Role-Playing Games (MMORPGS).

Provides challenging, practical cases for students studying auditing and assurance. Martinov-Bennie and Soh, Macquarie University; Roebuck, University of New South Wales.

Written for introductory courses in engineering design, this text illustrates conceptual design methods and project management tools through descriptions, examples, and case studies.

When you lose weight, where does the fat go? Most people assume it turns into heat and energy, but Albert Einstein showed us that diets would be devastating if this were true. The correct answer is that fat is converted to carbon dioxide and water. Energy is released, but no mass is created or destroyed. This was known when the First Fleet sailed into Sydney and yet it took two more centuries for Ruben Meerman to

show that precisely 8.4 kilograms out of every 10 kilograms of fat are exhaled, while the remaining 1.6 kilograms become crystal clear water. His calculations were published in The British Medical Journal in December 2014. Meerman begins this diet myth-busting book by reminding us what we already know: that human beings are carbon-based, oxygen-dependent life forms. Where do the carbon atoms we exhale come from? Carbohydrates are hydrated carbon, and so are fats, whether they're saturated or not. Eat less, and you'll exhale the excess carbon stored under your skin. Big Fat Myths lifts the veil on weight loss by tracing every atom you eat into and out of your body. Diet myths and wellness nonsense topple like dominoes along the way, restoring your confidence in common sense and the age-old wisdom that to lose weight, you simply need to eat less and move more.

Computer Security: Principles and Practice, 2e, is ideal for courses in Computer/Network Security. In recent years, the need for education in computer security and related topics has grown dramatically – and is essential for anyone studying Computer Science or Computer Engineering.

This is the only text available to provide integrated, comprehensive, up-to-date coverage of the broad range of topics in this subject. In addition to an extensive pedagogical program, the book provides unparalleled support for both research and modeling projects, giving students a broader perspective. The Text and Academic Authors Association named Computer Security: Principles and Practice, 1e, the winner of the Textbook Excellence Award for the best Computer Science textbook of 2008.

The third edition of Managing Employee Performance and Reward: Systems, Practices and Prospects has been thoroughly revised and updated by a new four-member author team. The text introduces a new conceptual framework based on systems thinking and a dual model of strategic alignment and psychological engagement. Coverage of chapter topics provides a balance between research evidence and practice and, in this new edition, is enhanced with a more applied and technical approach. The text also includes chapters dedicated to conceptual framing, base pay and individual recognition and reward; 'reality check' breakout boxes with practical

examples and current problems on each of strategic alignment, employee engagement, organisation justice and workforce diversity; and a new chapter exploring new horizons in performance and reward practice and research with a focus on the mega-trends of technological transformation under 'Industry 4.0', new economic forms and relationships arising from the 'gig' economy, and generational change.

The second World Ocean Assessment is a collaborative effort of hundreds of experts from all regions of the world, a comprehensive and integrated assessment of the state of marine environment.

Intermediate Microeconomics: A Tool-Building Approach is a clear and concise, calculus-based exposition of current microeconomic theory essential for students pursuing degrees in Economics or Business. This beautifully-presented and accessible text covers all the essential topics that are typically required at the intermediate level, from consumer and producer theory to market structure (perfect competition, monopoly and oligopoly). Topics covered include risk, game theory, general equilibrium and externalities, asymmetric information, and public goods. Using numerical ex-

amples as well as sophisticated and carefully designed exercises, the book aims to teach microeconomic theory via a process of learning-by-doing. When there is a skill to be acquired, a list of steps outlining the procedure is provided, followed by an example to illustrate how this procedure is carried out. Once the procedure has been learned, students will be able to solve similar problems and be well on their way to mastering the skills needed for future study. Intermediate Microeconomics presents a tremendous amount of material in a concise way, without sacrificing rigor, clarity or exposition. Through use of this text, students will acquire both the analytical toolkit and theoretical foundations necessary in order to take upper-level courses in industrial organization, international trade, public finance and other field courses. Instructors that would like to consider Intermediate Microeconomics: A Tool-Building Approach for course adoption will have access to the book's free companion website featuring: Detailed answers to end of chapter questions All figures used in the book as PDF files suitable for inclusion in PowerPoint slides Chapter-by-Chapter zipped files of worksheets/quizzes suitable

for classroom use Problem sets are available on WebAssign for instructors who wish to use them. These are located at <http://www.webassign.net/features/textbooks/banerjeeecon1/details.html?l=publisher>. Please contact the author at banerjeemicro@gmail.com for details, or visit his website at <http://banerjeemicro.com/>

Fundamentals of Corporate Finance's applied perspective cements students' understanding of the modern-day core principles by equipping students with a problem-solving methodology and profiling real-life financial management practices--all within a clear valuation framework. KEY TOPICS: Corporate Finance and the Financial Manager; Introduction to Financial Statement Analysis; The Valuation Principle: The Foundation of Financial Decision Making; The Time Value of Money; Interest Rates; Bonds; Valuing Stocks; Investment Decision Rules; Fundamentals of Capital Budgeting; Risk and Return in Capital Markets; Systematic Risk and the Equity Risk Premium; Determining the Cost of Capital; Risk and the Pricing of Options; Raising Equity Capital; Debt Financing; Capital Structure; Payout Policy; Financial Modeling and Pro For-

ma Analysis; Working Capital Management; Short-Term Financial Planning; Risk Management; International Corporate Finance; Leasing; Mergers and Acquisitions; Corporate Governance MARKET: Appropriate for Undergraduate Corporate Finance courses.

Guide to legal citation and referencing that incorporates the latest media neutral referencing rules bringing it into line with recent practice changes.

Written by renowned data science experts Foster Provost and Tom Fawcett, *Data Science for Business* introduces the fundamental principles of data science, and walks you through the "data-analytic thinking" necessary for extracting useful knowledge and business value from the data you collect. This guide also helps you understand the many data-mining techniques in use today. Based on an MBA course Provost has taught at New York University over the past ten years, *Data Science for Business* provides examples of real-world business problems to illustrate th-

ese principles. You'll not only learn how to improve communication between business stakeholders and data scientists, but also how to participate intelligently in your company's data science projects. You'll also discover how to think data-analytically, and fully appreciate how data science methods can support business decision-making. Understand how data science fits in your organization—and how you can use it for competitive advantage. Treat data as a business asset that requires careful investment if you're to gain real value. Approach business problems data-analytically, using the data-mining process to gather good data in the most appropriate way. Learn general concepts for actually extracting knowledge from data. Apply data science principles when interviewing data science job candidates.

Business Law, 5th Edition (James et al.) is written for business students to provide a clear and accessible introduction to the legal system. Business law courses are the first exposure to law for many business stu-

dents and the first time they are obliged to think deeply about the discipline. This updated edition presents business law in a practical context rather than the doctrinal context that many major legal publishers use. The *Business Law* interactive e-text features a range of instructional media content designed to provide students with an engaging learning experience. This includes practitioner videos from Herbert Smith Freehills, animated work problems and questions with immediate feedback. This new edition is a unique resource that can form the basis of a blended learning solution for lecturers.

Python for Software Design is a concise introduction to software design using the Python programming language. The focus is on the programming process, with special emphasis on debugging. The book includes a wide range of exercises, from short examples to substantial projects, so that students have ample opportunity to practice each new concept.