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This is an edited volume based on the 2007 Conference on Metadata and Semantics Research (MTSR), now in its second meeting. Metadata research is a pluri-disciplinary field that encompasses all aspects of the definition, creation, assessment, management and use of metadata. The volume brings together world class leaders to contribute their research and up-to-date information on metadata and semantics applied to library management, e-commerce, e-business, information science and librarianship, to name a few. The book is designed for a professional audience composed of researchers and practitioners in industry.

In this Part 1 we analyse the Distance and Intensity of Running, Physiological Demands of Football and Injuries and Prevention Techniques. We then present Speed & Agility Training Drills, Warm Up Drills & Injury Prevention, Strength and Conditioning Exercises. The 2nd book in this set focuses on Periodization, Seasonal Training & Small Sided Games

This Dictionary covers information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This Second Edition contains 10,000 new entries, for a total of 33,000.

"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Innovation in public procurement is essential for sustainable and inclusive growth in an increasingly globalized economy. To achieve that potential, both the promises and the perils of innovation must be investigated, including the risks and opportunities of joint procurement across borders in the European Union and the United States. This in-depth research investigates innovation in public procurement from three different perspectives. First, leading academics and practitioners assess the purchase of innovation, with a particular focus on urban public contracting in smart cities involving meta-infrastructures, public-private partnership arrangements and smart contracts. A second line of inquiry looks for ways to encourage innovative suppliers. Here, the collected authors draw on emerging lessons from the US and Europe, to explore both the costs and the benefits of spurring innovation through procurement. A third perspective looks to various innovations in the procurement process itself, with a focus on the effects of joint and cross-border procurement in the EU and US landscapes. The chapters review new technologies and platforms, the increasingly automated means of selecting suppliers, and the related efficiencies that "big data" can bring to public procurement. Expanding on research in the editors' prior volume, *Integrity and Efficiency in Sustainable Public Contracts: Balancing Corruption Concerns in Public Procurement Internationally* (Bruylant 2014), this volume builds on a series of academic conferences and exchanges to address these issues from sophisticated academic, institutional and practical perspectives, and to point the way to future research on the contractual models that are emerging from new procurement technologies.

It is undeniable that Association football is a global game with huge popularity. Yet what is known as 'women's football' receives far less support, financial assistance, media coverage and academic attention than the men's game. Consequently the story of women's football remains largely untold and its potential as a sports-related discussion is yet to be fulfilled. *Women, Football and Europe* is a collection of essays that contributes new knowledge on women's football. Volume 1 deals with historical aspects of the game, equality issues, and the experiences of those involved, while volume 2 looks at individual topics such as the 2005 UEFA Women's Championships, the pressures and constraints on female coaches, and the key issues affecting the development of the women's game in England and Europe. The second edition of *Sustainable Construction* provides a masterclass on the principles and techniques involved in the design and delivery of practical, affordable, high quality sustainable buildings and places. It presents precedents, theory, concepts and principles alongside 120 wide ranging case studies that highlight current best practice and encourage implementation. Topics in the book include: • the history of ideas in sustainable construction • policy • materials • cost issues • appraisal techniques • environmental design • energy • water • construction processes • and urban ecology. The book is heavily illustrated in full colour and is an ideal, contemporary, accessible primer to courses in Architecture, Construction, Building Engineering, Environmental Engineering, Project Management, Landscape, Urbanism and Development.

This unique resource presents current issues in sports and exercise medicine which outlines new areas of knowledge and provides updates on current knowledge in the broad field of sports and exercise medicine. Written by experts in their own sub-disciplines, *Current Issues in Sports and Exercise Medicine* discusses the physiology behind sports injuries and presents new and exciting approaches to manage such injuries. In addition, the book explores the relationship between exercise, health and performance by providing new information in areas such as exercise and immunity, the use of iron supplementation for performance, how exercise affects reactive oxygen species, and the proposed benefits of real and simulated altitude training. This book is well referenced and illustrated and will be a valuable resource for sports medicine specialists, physiologists, coaches, physical conditioners, physiotherapists and graduate and medical school students.

Elite Soccer Players Maximizing Performance and Safety Routledge

In the last 25 years, information systems have had a disruptive effect on society and business. Up until recently though, the majority of passengers and goods were transported by sea in many ways similar to the way they were at the turn of the previous century. Gradually, advanced information technologies are being introduced, in an attempt to make shipping safer, greener, more efficient, and transparent. The emerging field of Maritime Informatics studies the application of information technology and information systems to maritime transportation. Maritime Informatics can be considered as both a field of study and domain of application. As an application domain, it is the outlet of innovations originating from data science and artificial intelligence; as a field of study, it is positioned between computer science and marine engineering. This new field's complexity lies within this duality because it is faced with disciplinary barriers yet demands a systemic, transdisciplinary approach. At present, there is a growing body of knowledge that remains undocumented in a single source or textbook designed to assist students and practitioners. This highly useful textbook/reference starts by introducing required knowledge, algorithmic approaches, and technical details, before presenting real-world applications. The aim is to present interested audiences with an overview of the main technological innovations having a disruptive effect on the maritime industry, as well as to discuss principal ideas, methods of operation and applications, and future developments. The material in this unique volume provides requisite core knowledge for undergraduate or postgraduate students, employing an analytical approach with numerous real-world examples and case studies.

Cofounder of Fast Company magazine and bestselling author of *Mavericks at Work* and *Practically Radical* shows how true business innovation can spring from the unlikeliest places. Far away from Silicon Valley, in familiar, traditional, even unglamorous fields, ordinary people are unleashing extraordinary advances that amaze customers, energize employees, and create huge economic value. Their secret? They understand that the work of inventing the future doesn't just belong to geeks designing mobile apps and virtual-reality headsets, or to social-media entrepreneurs hoping to launch the next Facebook. Some of today's most compelling organizations are doing brilliant things in simple settings such as retail banks, office cleaning companies, department stores, small hospitals, and auto dealerships. William C. Taylor, cofounder of Fast Company and best-selling author of *Practically Radical*, traveled thousands of miles to visit these hotbeds of simple brilliance and unearth the principles and practices behind their success. He offers fascinating case studies and powerful lessons that you can apply to do ordinary things in extraordinary ways, regardless of your industry or profession. Consider, for instance, how... ·Miami Beach's dazzling 1111 Lincoln Road reimagined the humble parking garage as a high-profile public space that hosts weddings, yoga classes, and celebrity gatherings. ·USAA, the financial-services giant that provides soldiers and their families with insurance and banking products, inspires frontline employees to deliver legendary service by immersing them in military culture. ·Pal's Sudden Service, a fast-food chain with a cult following, serves up burgers and fries with such speed and accuracy that companies from other industries pay to learn from its astonishing discipline. ·Lincoln Electric, a manufacturer based in Euclid, Ohio, dominates its ultracompetitive markets with a fierce devotion to quality and productivity. But the key to its prosperity is a share-the-wealth model that gives everybody a sense of security and a piece of the action. It has maintained a strict no-layoff pledge since 1958. As Taylor writes: "The story of this book, its message for leaders who aim to do something important and build something great, is both simple and subversive: In a time of wrenching disruptions and exhilarating advances, of unrelenting turmoil and unlimited promise, the future is open to everybody. The thrill of breakthrough creativity and breakaway performance . . . can be summoned in all sorts of industries and all walks of life, if leaders can reimagine what's possible in their fields." *Simply Brilliant* shows you how.

"Links" are among the most basic---and most unexamined---features of online life. Bringing together a prominent array of thinkers from industry and the academy, *The Hyperlinked Society* addresses a provocative series of questions about the ways in which hyperlinks organize behavior online. How do media producers' considerations of links change the way they approach their work, and how do these considerations in turn affect the ways that audiences consume news and entertainment? What role do economic and political considerations play in information producers' creation of links? How do links shape the size and scope of the public sphere in the digital age? Are hyperlinks "bridging" mechanisms that encourage people to see beyond their personal beliefs to a broader and more diverse world? Or do they simply reinforce existing bonds by encouraging people to ignore social and political perspectives that conflict with their existing interests and beliefs? This pathbreaking collection of essays will be valuable to anyone interested in the now taken for granted connections that structure communication, commerce, and civic discourse in the world of digital media. "This collection provides a broad and deep examination of the social, political, and economic implications of the evolving, web-based media environment. *The Hyperlinked Society* will be a very useful contribution to the scholarly debate about the role of the internet in modern society, and especially about the interaction between the internet and other media systems in modern society."

---Charles Steinfield, Professor and Chairperson, Department of Telecommunication, Information Studies, and Media, Michigan State University Joseph Turow is Robert Lewis Shayon Professor at the Annenberg School for Communication, University of Pennsylvania. He was named a Distinguished Scholar by the National Communication Association and a Fellow of the International Communication Association in 2010. He has authored eight books, edited five, and written more than 100 articles on mass media industries. His books include *Niche Envy: Marketing Discrimination in the Digital Age* and *Breaking up America: Advertisers and the New Media World*. Lokman Tsui is a doctoral candidate at the Annenberg School for Communication, University of Pennsylvania. His research interests center on new media and global communication. Cover image: This graph from Lada Adamic's chapter depicts the link structure of political blogs in the United States. The shapes reflect the blogs, and the colors of the shapes reflect political orientation---red for conservative blogs, blue for liberal ones. The size of each blog reflects the number of blogs that link to it. *digitalculturebooks* is an imprint of the University of Michigan Press and the Scholarly Publishing Office of the University of Michigan Library dedicated to publishing innovative and accessible work exploring new media and their impact on society, culture, and scholarly communication. Visit the website at www.digitalculture.org.

Cyberpsychology is an emerging area of psychological study that aims to understand and explain all facets of online behaviour. This book brings together overviews from a number of leading authorities in the field, to suggest how academic theory and research can be applied to a variety of online behaviours. Both positive and negative behaviours are considered, including topics as diverse as parenting the online child, age-related internet usage and cultural considerations in online interactions. Psychological research can no longer view online and offline worlds as different entities, but must consider online behaviours as equally distinct as offline activities. This is especially apparent when looking at online dating, the role that social networks play in organisations and online consumer behaviours, and in a consideration of the role that psychological research plays in underpinning the multi-billion pound gaming industry. Focusing on these personal applications of the Internet, insight is also offered into the role that theory and research plays in training military personnel as well as the use of psychometric testing to select and retain employees.

A fascinating book that covers in detail all of the most recent advances in Telerobotics. A must-read for scientists, researchers and students in teleoperation, it describes everything from methods and experimental results to applications and developments. Its three sections cover human system interfaces, control, and applications.

This book, examining smart-city trends and developments from global, Chinese and EU perspectives, shows how the concept of the smart city varies from city to city. A detailed analysis is made to present the smart city as an up-to-date model of world city. Thirty pilot cities answer questions designed by the "Smart City Evaluation Framework," including managerial entities, stakeholders, project description and performance and whatever else relates to smart cities. By assessing the answers, researchers reveal major trends, best practices and challenges confronting smart city campaigns. Recommendations and solutions are provided. This is a must-read for anyone wishing to understand Chinese and European cities in terms of ideas about city development, plausible practice, natural and geographic conditions, economic structure and infrastructure robustness. Innovation and updates in telecommunication technology is regarded as indicative of city intelligence and green, low-carbon and sustainable development. This innovative book offers an interdisciplinary perspective and shall be of interest to researchers, policy analysts and technical experts involved in and responsible for the planning, development and design of smart cities.

For decades, sports economics has been set within the framework of equilibrium economics, in particular when modelling team sport leagues. Based on a conviction that this does not reflect real life, this book addresses a gap in the literature and opens up a new research area by applying concepts drawn from disequilibrium economics. It is divided into two parts, the first of which focuses on economic disequilibrium in sports markets and competitive imbalance in sporting contests. The second part concentrates on soft budget constraints and their consequences for club governance and management.

A comprehensive book on project management, covering all principles and methods with fully worked examples, this book includes both hard and soft skills for the engineering, manufacturing and construction industries. Ideal for engineering project managers considering obtaining a Project Management Professional (PMP) qualification, this book covers in theory and practice, the complete body of knowledge for both the Project Management Institute (PMI) and the Association of Project Management (APM). Fully aligned with the latest 2005 updates to the exam syllabi, complete with online sample Q&A, and updated to include the latest revision of BS 6079 (British Standards Institute Guide to Project Management in the Construction Industry), this book is a complete and valuable reference for anyone serious about project management. • The complete body of knowledge for project management professionals in the engineering, manufacturing and construction sectors • Covers all hard and soft topics in both theory and practice for the newly revised PMP and APMP qualification exams, along with the latest revision of BS 6079 standard on project management in the construction industry • Written by a qualified PMP exam accreditor and accompanied by online Q&A resources for self-testing

Completely revised and updated edition of this very popular and successful small business book The first edition of 201 Great Ideas for Your Small Business was hailed by management guru and author Tom Peters as "Brilliantly researched. Brilliantly written. A gem of priceless value on almost every page. Read. Inhale. Absorb. Great Stuff!" In this completely updated third edition of 201 Great Ideas for Your Small Business, renowned small-business expert and consultant Jane Applegate shares new, powerful, creative, simple, and proven approaches for building a better small business. Details how business owners can use online marketing and social networking more effectively Offers timely strategies for thriving in challenging economic times Includes scores of real-life success stories and all-new interviews with small-business owners, experts, and VIP's including Guy Kawasaki, Kay Koplovitz, and Michael Bloomberg It may be small, but your business is a big deal to you, your customers, and employees. 201 Great Ideas provides lively, practical strategies to help you manage, grow, and promote your business.

The media increasingly refer to football clubs as brands. Certainly concepts such as loyalty, affiliation, emotional ties with football clubs seem to parallel the relationship between consumer and brand in the broader marketing sphere. This book delves deep into the world of the lucrative business of sports branding.

In recent decades, the conduct of international relations among and within states has been very considerably altered. Today, the content of these relations relies as much on international professional and civil society networks as it does on state-to-state transactions. The role of the Internet has been fundamental in widening communications opportunities for citizens and civil society, with a profound effect on democracy transition. In consequence, diplomacy has taken on a much more human and public face. Twenty-first century ambassadors and diplomats are learning to engage with civil societies, especially on the large themes of democratic change — an engagement that is often resisted by authoritarian regimes. A Diplomat's Handbook for Democracy Development Support presents a wide variety of specific experiences of diplomats on the ground, identifying creative, human and material resources. More broadly, it is about the policy-making experience in capitals, as democratic states try to align national interests and democratic values. The Handbook also documents the increasingly prominent role of civil society as the essential building block for successful democratic transitions, with each case study examining specific national experiences in the aspiration for democratic and pluralistic governance, and lessons learned on all sides — for better or for worse. While each situation is different — presenting unique, unstructured problems and opportunities — a review of these experiences bears out the validity of the authors' belief in the interdependence of democratic engagements, and provides practitioners with encouragement, counsel and a greater capacity to support democracy everywhere.

The sport of soccer has evolved immensely since its beginning around 2,000 years ago and is now considered the most popular sport in the world. The research related to the physical, psychological, and tactical aspects of the game has risen in conjunction with its fame. Elite Soccer Players: Maximizing Performance and Safety seeks to inform the reader with the most current research connected to optimizing physical performance and reducing the risk of injury of the elite soccer athlete for a variety of ages. After providing an initial brief overview of applying physical and psychological scientific concepts in soccer ("Part I: Laying the Foundation"), this book then takes the reader through a series of important yet novel parts including: "Athlete Monitoring and Data Analysis," "Optimizing Physical Performance," "Injury Epidemiology and Risk Reduction," "Achieving Peak Performance and Safety in Various Environmental Conditions," and "Unique Aspects of the Game." The goal of Elite Soccer Players: Maximizing Performance and Safety is to conceptualize and expand upon the current research associated with these topics and provide an applicable point of view to the coaches, sport scientists, strength and conditioning coaches, and sports medicine professionals who work with these athletes every day.

This book constitutes the refereed proceedings of the 7th Security Research Conference, Future Security 2012, held in Bonn, Germany, in September 2012. The 78 revised full papers presented were carefully reviewed and selected from 137 submissions. The papers are organized in topical sections on supply chain and critical infrastructure protection; security situational awareness; crisis management; security for critical infrastructure and urban areas; sensor technology; social, psychological and political aspects; cyber defense and information security; maritime and border security; detection of hazardous materials; food chain security; aviation security; ergonomic aspects.

A philosophical manual of media power for the network age. Evil Media develops a philosophy of media power that extends the concept of media beyond its tried and trusted use in the games of meaning,

symbolism, and truth. It addresses the gray zones in which media exist as corporate work systems, algorithms and data structures, twenty-first century self-improvement manuals, and pharmaceutical techniques. *Evil Media* invites the reader to explore and understand the abstract infrastructure of the present day. From search engines to flirting strategies, from the value of institutional stupidity to the malicious minutiae of databases, this book shows how the devil is in the details. The title takes the imperative "Don't be evil" and asks, what would be done any differently in contemporary computational and networked media were that maxim reversed. Media here are about much more and much less than symbols, stories, information, or communication: media do things. They incite and provoke, twist and bend, leak and manage. In a series of provocative stratagems designed to be used, *Evil Media* sets its reader an ethical challenge: either remain a transparent intermediary in the networks and chains of communicative power or become oneself an active, transformative medium.

'An artist, in my eyes, is someone who can lighten up a dark room. I have never and will never find difference between the pass from Pele to Carlos Alberto in the final of the World Cup in 1970, and the poetry of the young Rimbaud' - Eric Cantona Football, and art. Eric Cantona – legend, maverick, troubled artist or just plain trouble – never saw a need to make a distinction between the two. For all the heat and noise surrounding his infamous Crystal Palace 'kung-fu kick', it is for the sheer exuberant beauty of his play that Eric Cantona is chiefly remembered by English football fans. At Leeds United he transformed the team into title contenders, but became a true talisman at Manchester United, where to this day fans sing of 'King Eric'. And yet the effortless style of Cantona's play could not hide a darker side to his temperament. In his own words, 'I play with passion and fire. I have to accept that sometimes, this fire does harm.' In *Cantona: The Rebel Who Would Be King* leading French football journalist Philippe Auclair has interviewed over 200 key protagonists in Cantona's career, searching for the man behind the myth. Marrying a deep knowledge of Cantona's impact on the pitch with soulful, pin-sharp insight into the heart and inner thoughts of this most complex of characters, this is nothing less than the definitive biography of a one-time rebel of the French game, who rose to be the King of Old Trafford. 'I'd give all the champagne I've ever drunk to be playing alongside Cantona in a big European match at Old Trafford' - George Best

The future of football is now. Football's data revolution has only just begun. The arrival of advanced metrics and detailed analysis is already reshaping the modern game. We can now fully assess player performance, analyse the role of luck and measure what really leads to victory. There is no turning back. Now the race is on between football's wealthiest clubs and a group of outsiders, nerds and rule-breakers, who are turning the game on its head with their staggering innovations. Winning is no longer just about what happens out on the pitch, it's now a battle taking place in boardrooms and on screens across international borders with the world's brightest minds driving for an edge over their fiercest rivals. Christoph Biermann has moved in the midst of these disruptive upheavals, talking to scientists, coaches, managers, scouts and psychologists in the world's major clubs, traveling across Europe and the US and revealing the hidden - and often jaw-dropping - truths behind the beautiful game. 'A book full of exciting ideas and inside views on modern football. The most exciting book in an exciting time for football.' Thomas Hitzlsperger

The third edition of this clearly structured case book has been expanded and updated, and includes an introduction to the analysis of operations management cases. Key areas of operations management are dealt with, including new areas such as operations strategy, performance measurement and TPM.

The articles by well-known international experts intend to facilitate more elaborate expositions of the research presented at the seminar, and to collect and document the results of the various discussions, including ideas and open problems that were identified. Correspondingly the book will consist of two parts. Part I will consist of extended articles describing research presented at the seminar. This will include papers on tracking, motion capture, displays, cloth simulation, and applications. Part II will consist of articles that capture the results of breakout discussions, describe visions, or advocate particular positions. This will include discussions about system latency, 3D interaction, haptic interfaces, social gaming, perceptual issues, and the fictional "Holodeck".

Published in 1963, this book about the famous accountant and bookkeeper Luca Paciolo explores his extraordinary contribution to the development of the accounting profession. Paciolo is the first known writer to publish a work describing the double entry process.

This book examines the subject of lower limb tendinopathy and is divided into two main parts: the first covers the general aspects of tendinopathy, while the second focuses on the specific condition in the lower limb. Each chapter has a clear structure: etiopathogenesis, clinical presentation, imaging, conservative and surgical treatment, and therapeutic indications, making it easy to read. Furthermore, the section on conservative treatment includes important practical application tools.

In *Stillness and Speed*, one of football's most enigmatic stars finally opens up about his life and career, revealing the things that motivate and inspire him. Viewed by many as one of the most influential figures in Premier League history, and scorer of the goal that Arsenal fans voted the best in the club's history, Dennis Bergkamp is a true giant of the game. As a youngster, Bergkamp learned from the Dutch master Johan Cruyff. By the time the pupil was ready to graduate from Ajax and move abroad, he was ready to spread the word, but in Italy he found few willing listeners. It was only when he moved to Arsenal and linked up with Arsene Wenger that he met someone else who shared his vision for football's possibilities. Bergkamp became central to everything the club did: now he had become the teacher, their creative genius, and the one who inspired some of the wayward old guard to new heights, helping them to seven major trophies. Few footballers' books make you think anew, but in *Stillness and Speed* Bergkamp presents a new vision for the game and how it might be played. He was a player like no other; his story is told like no other. It is a book that will inspire football fans everywhere, whatever their allegiance.

Muscle tears are one of the most common pathologies in sport and one of the most frequent causes of sport activity suspension. The purpose of this book is to review the state of the art of the actual knowledge on muscle tears in athletes, in particular for what concern the biology of muscle healing, the conservative and surgical treatments and the preventive aspects. Therefore, this textbook can be a valid tool for all Sport Medicine practitioners such as physicians, physiotherapists and fitness coaches.

This book traces the development of purchasing and supply management from its origins as a tactical commercial function into a key strategic business process.

The Whole Building Handbook is a compendium of all the issues and strategies that architects need to understand to design and construct sustainable buildings for a sustainable society. The authors move beyond the current definition of sustainability in architecture, which tends to focus on energy-efficiency, to include guidance for architecture that promotes social cohesion, personal health, renewable energy sources, water and waste recycling systems, permaculture, energy conservation - and crucially, buildings in relation to their place. The authors offer a holistic approach to sustainable architecture and authoritative technical advice, on: * How to design and construct healthy buildings, through choosing suitable materials, healthy service systems, and designing a healthy and comfortable indoor climate, including solutions for avoiding problems with moisture, radon and noise as well as how to facilitate cleaning and maintenance. * How to design and construct buildings that use resources efficiently, where heating and cooling needs and electricity use is minimized and water-saving technologies and garbage recycling technologies are used. * How to 'close' organic waste, sewage, heat and energy cycles. For example, how to design a sewage system that recycles nutrients. * Includes a section on adaptation of buildings to local conditions, looking at how a site must be studied with respect to nature, climate and community structure as well as human activities. The result is a comprehensive, thoroughly illustrated and carefully structured textbook and reference.

API Design for C++ provides a comprehensive discussion of Application Programming Interface (API) development, from initial design through implementation, testing, documentation, release, versioning,

maintenance, and deprecation. It is the only book that teaches the strategies of C++ API development, including interface design, versioning, scripting, and plug-in extensibility. Drawing from the author's experience on large scale, collaborative software projects, the text offers practical techniques of API design that produce robust code for the long term. It presents patterns and practices that provide real value to individual developers as well as organizations. API Design for C++ explores often overlooked issues, both technical and non-technical, contributing to successful design decisions that product high quality, robust, and long-lived APIs. It focuses on various API styles and patterns that will allow you to produce elegant and durable libraries. A discussion on testing strategies concentrates on automated API testing techniques rather than attempting to include end-user application testing techniques such as GUI testing, system testing, or manual testing. Each concept is illustrated with extensive C++ code examples, and fully functional examples and working source code for experimentation are available online. This book will be helpful to new programmers who understand the fundamentals of C++ and who want to advance their design skills, as well as to senior engineers and software architects seeking to gain new expertise to complement their existing talents. Three specific groups of readers are targeted: practicing software engineers and architects, technical managers, and students and educators. The only book that teaches the strategies of C++ API development, including design, versioning, documentation, testing, scripting, and extensibility. Extensive code examples illustrate each concept, with fully functional examples and working source code for experimentation available online. Covers various API styles and patterns with a focus on practical and efficient designs for large-scale long-term projects.

Value Management is a philosophy, set of principles and a structured management methodology for improving organisational decision-making and value-for-money. The second edition builds on the success of the first edition by extending the integrated value philosophy, methodology and tool kit to describe the application of Value Management to the areas of service delivery, asset management, and Programmes, in addition to Projects, products and processes. Value Management is a well-established methodology in the international construction industry, and in the UK has been endorsed as good practice in a range of government sponsored reports. In this book the authors have addressed the practical opportunities and difficulties of Value Management by synthesising the background, international developments, benchmarking and their own extensive consultancy and action research experience in Value Management to provide a comprehensive package of theory and practice. The second edition retains the structure of the first edition, covering methods and practices, frameworks of value and the future of value management. It has been thoroughly updated, and a number of new chapters added to encapsulate further extensions to current theory and practice. In particular, the new edition responds to: A range of recent UK industry and government publications; and most notably BS EN 16271:2012 - Value management: Functional expression of the need and functional performance specification; the imminent update of BS EN 12973:2000 Value Management; BS EN 1325 Value Management – Vocabulary, Terms and definitions; the changes to "Value for Europe" governing the training and certification of Value Management in European Union countries; the UK Government's Management of Value (MoV) initiative, together with other leading reports, international guidance and standards on Value Management. Research in Value Management undertaken since publication of the first edition. Changes in Value Management practice particularly in Programmes and Projects. Developments in the theory of value, principally value for money measures, whole life value option appraisal, and benefits realisation. Initiatives in asset management initiatives covering the management of physical infrastructure, for example the recent launch of a suite of three standards under the generic title of BS ISO 55000: 2014 Asset Management, and its predecessor BSI PAS55 2008 "Asset Management: Specification For The Optimized Management Of Physical Assets" The second edition contains a dedicated chapter of exemplar case studies drawn from the authors' experience, selected to demonstrate the new areas of theory and practice. An Appendix includes an extensive set of tools and techniques of use in Value Management practice. Construction clients, including those in both the public and private sectors, and professionals such as construction cost consultants, quantity surveyors, architects, asset managers, construction engineers, and construction managers will all find Value Management of Construction Projects to be essential reading. It will also be of interest to researchers and students on construction related courses in Higher Education – particularly those at final year undergraduate and at Masters level.

This volume brings together all the successful peer-reviewed papers submitted for the proceedings of the 43rd conference on Computer Applications and Quantitative Methods in Archaeology that took place in Siena (Italy) from March 31st to April 2nd 2015.

This book deals with human factors research directed towards realizing and assessing sustainability in the built environment. It reports on advanced engineering methods for sustainable infrastructure design, as well as on assessments of the efficient methods and the social, environmental, and economic impact of various designs and projects. The book covers a range of topics, including the use of recycled materials in architecture, ergonomics in buildings and public design, sustainable design for smart cities, design for the aging population, industrial design, human scale in architecture, and many more. Based on the AHFE 2017 International Conference on Human Factors, Sustainable Urban Planning and Infrastructure, held on July 17–21, 2017, in Los Angeles, California, USA, this book, by showing different perspectives on sustainability and ergonomics, represents a useful source of information for designers in general, urban engineers, architects, infrastructure professionals, practitioners, public infrastructure owners, policy makers, government engineers and planners, as well as operations managers, and academics active in applied research.

With its unique focus on how culture contributed to the blurring of ideological boundaries between the East and the West, this important volume offers fascinating insights into the tensions, rivalries and occasional cooperation between the two blocs. Encompassing developments in both the arts and sciences, the authors analyze focal points, aesthetic preferences and cultural phenomena through topics as wide-ranging as the East- and West German interior design; the Soviet stance on genetics; US cultural diplomacy during and after the Cold War; and the role of popular music as a universal cultural ambassador. Well positioned at the cutting edge of Cold War studies, this important work illuminates some of the striking paradoxes involved in the production and reception of culture in East and West. This book focuses on the challenge that Australia faces in transitioning to renewable energy and regenerating its cities via a transformation of its built environment. Both are necessary conditions for low carbon living in the 21st century. This is a global challenge represented by the United Nation's Sustainable Development Goals and the IPCC's Climate Change program and its focus on mitigation and adaptation. All nations must make significant contributions to this transformation. This book highlights the new knowledge and innovation that has emerged from research projects undertaken in the Co-operative Research Centre for Low Carbon Living between 2012 and 2019 – an initiative of the Australian Government's Department of Industry, Science and Technology that is tasked with responding to the UN challenges. Four principal transition pathways were central to the CRC and provide the thematic structure to this volume. They focus on technology, buildings, precinct and city design, and human behaviour – and their interactions.

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