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Learn the right cutting-edge skills and knowledge to leverage Spark Streaming to implement a wide array of real-time, streaming applications. This book walks you through end-to-end real-time application development using real-world applications, data, and code. Taking an application-first approach, each chapter introduces use cases from a specific industry and uses publicly available datasets from that domain to unravel the intricacies of production-grade design and implementation. The domains covered in Pro Spark Streaming include social media, the sharing economy, finance, online advertising, telecommunication, and IoT. In the last few years, Spark has become synonymous with big data processing. DStreams enhance the underlying Spark processing engine to support streaming analysis with a novel micro-batch processing model. Pro Spark Streaming by Zubair Nabi will enable you to become a specialist of latency sensitive applications by leveraging the key features of DStreams, micro-batch processing, and functional programming. To this end, the book includes ready-to-deploy examples and actual code. Pro Spark Streaming will act as the bible of Spark Streaming. What You'll Learn Discover Spark Streaming application development and best practices Work with the low-level details of discretized streams Optimize production-grade deployments of Spark Streaming via configuration recipes and instrumentation using Graphite, collectd, and Nagios Ingest data from disparate sources including MQTT, Flume, Kafka, Twitter, and a custom HTTP receiver Integrate and couple with HBase, Cassandra, and Redis Take advantage of design patterns for side-effects and maintaining state across the Spark Streaming micro-batch model Implement real-time and scalable ETL using data frames, SparkSQL, Hive, and SparkR Use streaming machine learning, predictive analytics, and recommendations Mesh batch processing with stream processing via the Lambda architecture Who This Book Is For Data scientists, big data experts, BI analysts, and data architects.

To succeed in the face of disruptive competition, companies will need to harness the power of a wide range of partners who can bring different skills, experience, capacity, and their own networks to the task. With the advent of new technologies, rapidly changing customer needs, and emerging competitors, companies across more and more industries are seeing their time-honored ways of making money under threat. In this book, Arnoud De Meyer and Peter J. Williamson explain how business can meet these challenges by building a large and dynamic ecosystem of partners that reinforce, strengthen, and encourage innovation in the face of ongoing disruption. While traditional companies know how to assemble and manage supply chains, leading the development of a vibrant ecosystem requires a different set of capabilities. Ecosystem Edge illustrates how executives need to leave notions of command and control behind in favor of strategies that will attract partners, stimulate learning, and promote the overall health of the network. To understand the

practical steps executives can take to achieve this, the authors focus on eight core examples that cross industries and continents: Alibaba Group, Amazon.com, ARM, athenahealth, Dassault Systèmes S.E., The Guardian, Rolls-Royce, and Thomson Reuters. By following the principles outlined in this book, leaders can learn how to unlock rapid innovation, tap into new and original sources of value, and practice organizational flexibility. As a result, companies can gain the ecosystem edge, a key advantage in responding to the challenges of disruption that business sees all around it today. In contemporary economics only one thing is constant – constant change [Gunday et al., 2011]. The notion of change relates directly to innovation. The very nature of innovation constitutes combining existing factors in a new, changed way. Since the early stage of the scientific investigation of innovation research has focused mainly on the solutions actually implemented [Schumpeter 1939]. Yet it is only through implementation that the benefits of innovation may materialise. The task is not simple. The process of obtaining the gains is complex as innovation may pass through different stages. Thus for almost half-century the scientific community has considered innovation to be a complex process and not just a simple occurrence [Myers and Marquis 1969]. Innovation pushes progress forward. Thus previous scientific investigation limited the concept of innovation to implementations which generate positive effects [Nelson and Winter 1982]. The above scientific considerations still hold today [Moss Kanter 2006]. Innovation is of crucial importance for tourism companies, which cover accommodation for visitors, food and beverage serving activities, passenger transportation, travel agencies and other reservation activities, cultural activities, sports and recreational activities and retail trade of country-specific tourism characteristic goods [UNWTO 2010]. It provides them with competitive advantage and hence the firms with market power gain more from innovation [Tirole 1995]. A firm's innovation interacts with the environment. It delivers diverse benefits to the consumers in the form of new products and lower prices which in turn impact positively on the company [Shiller 2006]. In the context of tourism the ongoing scientific discussion on innovation seems not to have achieved any definite conclusions yet. The implementation of innovation in tourism enterprises leads to the achievement of diverse ends. From this point of view the measurement of the effects of innovation is of vital importance. There are a number of financial measures covering substantially different fields. The most comprehensive amongst them is a company's value. It covers all the aspects of a company's activity [Bodie and Merton 2000]. However due to its importance and complexity numerous approaches to company value were created. The basic distinction covers book and market value based approaches. The proponents of book value assume that the balance sheet yields a reliable estimate of the value of assets and equities. However numerous shortcomings emerge: the static character, dealing with historical figures, failing to include intangibles and treating all classes of accounts as having equal importance [Nunes 2003]. The market value based approach stands for the price that assets would fetch in the marketplace [Fabrozi and Drake 2009].

The main objective of the research is to measure the short- and long-term impact of innovation announcements on the market value of equity of tourism enterprises.

Credit and credit risk permeates every corner of the financial world. Although previously credit was only acknowledged when dealing with counterparty credit risk, high-yield debt, or credit-linked derivatives, now it affects all things, including such fundamental concepts as assessing the present value of a future cash flow. The purpose of this book is to analyze credit from the beginning—the point at which any borrowing entity (sovereign, corporate, etc.) decides to raise capital. To describe clearly the debt management activity, the book presents examples from the development banking world (multi-lateral agencies, quasi-governmental entities, Emerging Markets, shrinking pool of AAA borrowers, etc.). This book covers: Curve construction (instruments, collateralization, discounting, bootstrapping) Credit and fair valuing of loans (modeling, development institutions) Emerging markets and liquidity (development banking issues) Bond pricing (expressing credit, illiquid bonds) Treasury (funding as an asset swap structure, benchmarks for borrowing/investing) Risk and asset liability management (leverage, hedging, funding)

The situation of state-owned enterprises (SOEs) in Latin America and the Caribbean continues to be dire. This book uses an original database of SOE performance that shows that every year about one-third of such enterprises in the region report losses (up to 70 percent in some countries) and that they require between 0.3 and one percentage point of GDP in fiscal transfers to cover such losses. Countries in the region have adopted centralized agency monitoring of their SOEs, managed to reduce the fiscal burden of SOEs, shown better financial returns, and accumulated less liabilities to GDP, thus generating less fiscal risk for the government overall. Each of the chapters provides a practical way to solve either asymmetry of information problems in the monitoring of SOEs or solutions to reduce the discretionary nature of the fiscal governance of SOEs. Chapter 2 details the kinds of fiscal risks and contingent liabilities that SOEs create for governments and provides a set of controls to limit those risks. Chapter 3 shows that allowing SOEs to issue bonds has been an ineffective way of hardening their budget constraint, given that investors price those bonds at a discount. Chapter 4 presents a state-contingent financial instrument that allows investors to value an SOE. Chapter 5 provides empirical evidence on the advantages of SOE centralized monitoring agencies in Latin America and the Caribbean, highlighting Chile, Peru, and Paraguay. Chapter 6 examines the experience of East Asian countries with holding companies and discusses when holding companies are a better vehicle to control SOEs. Chapter 7 suggests ways to align the incentives of politicians and SOE managers to provide better goods and services. Finally, Chapter 8 provides a practical guide to improve the monitoring of SOEs and to design a centralized monitoring agency.

The comprehensive guide to working more effectively within the multi-commodity market. The Handbook of Multi-Commodity Markets and Products is the definitive desktop reference for traders, structurers, and risk managers who wish to broaden their knowledge base. This non-technical yet sophisticated manual covers everything the professional needs to become acquainted

with the structure, function, rules, and practices across a wide spectrum of commodity markets. Contributions from a global team of renowned industry experts provide real-world examples for each market, along with tools for analyzing, pricing, and risk managing deals. The discussion focuses on convergence, including arbitrage valuation, econometric modeling, market structure analysis, contract engineering, and risk, while simulated scenarios help readers understand the practical application of the methods and models presented. Gradual deregulation and the resulting increase in diversity and activity have driven the evolution of the traditionally segmented market toward integration, raising important questions about opportunity identification and analysis in multi-commodity deals. This book helps professionals navigate the shift, providing in-depth information and practical advice. Structure and manage both simple and sophisticated multi-commodity deals Exploit pay-off profiles and trading strategies with a diversified set of commodity prices Develop more accurate forecasting models by considering additional metrics Price energy products and other commodities in segmented markets with an eye toward specific structural features As one of the only markets strong enough to boom during the credit crunch, the commodities markets are growing rapidly. Combined with increasing convergence, this transition presents potentially valuable opportunities for the development of a robust multi-commodity portfolio. For the professional seeking deeper understanding and a more effective strategy, the Handbook of Multi-Commodity Markets and Products offers complete information and expert guidance.

The major innovations which have occurred between the end of the 20th and the beginning of the 21st century represent a fresh challenge to the responsibility of innovators. Innovators have disrupted, and continue to disrupt the world through the growth of technology, DNA sequencing, genetic engineering, the management of large databases, different forms of intrusion into our private lives, etc. It is up to them take full responsibility for their actions, and question what they are accomplishing, why they are accomplishing it, to what end and with what means. Such questionings are those found in a practice conducted by Ancient philosophers: spiritual exercises. These were internal or external discourses, enabling individuals to act, think, to know how to behave and how to master oneself. It is surely toward these practices innovators of today should turn in order to innovate with wisdom.

The series "Commodities at a Glance" aims to collect, present and disseminate accurate and relevant statistical information linked to international primary commodity markets in a clear, concise and reader-friendly format.

This nine volume set presents in easily accessible format the extensive information now available about John Milton. It has grown to be a study of English civilization of Milton's time and a history of literary and political matters since then. This book constitutes the refereed proceedings of the 17th Australasian Conference on Data Mining, AusDM 2019, held in Adelaide, SA, Australia, in December 2019. The 20 revised full papers presented were carefully reviewed and selected from 56 submissions. The papers are organized in sections on research track, application track, and industry showcase. This volume features a selection of contributions presented at the 2019 Wroclaw Conference in Finance, covering a wide

range of topics in finance and financial economics, e.g. financial markets; monetary policy; corporate, personal and public finance; and risk management and insurance. Reflecting the diversity and richness of research in the field, the papers discuss both fundamental and applied finance, and offer a detailed analysis of current financial-market problems, including specifics of the Polish and Central European markets. They also examine the results of advanced financial modeling. Accordingly, the proceedings offer a valuable resource for researchers at universities and policy institutions, as well as graduate students and practitioners in economics and finance at both private and government organizations. New trends are emerging regarding earnings management and corporate governance showing similarities and striking differences in the practices of different countries and economies. These new trends currently shape the field of modern corporate governance with crucial issues being looked at in governance law and practices, accounting systems, earnings quality and management, stakeholder involvement, and more. In order to advance these new avenues in corporate governance, research looks at accounting policies firms use in different opportunistic circumstances in order to manage earnings, the corporate governance practices in different countries, firm performance, and other dimensions of companies. The understanding of these topics is beneficial in understanding the current state of different types of firms and their practices in modern times. Comparative Research on Earnings Management, Corporate Governance, and Economic Value is focused on the investigation of key challenges and perspectives of corporate governance and earnings management and outlines possible scenarios of its development. The chapters explore this new avenue of research and cover theoretical, empirical, and experimental studies related to different themes in the global context of earnings management and corporate governance. This book is ideal for economists, businesses, managers, accountants, practitioners, stakeholders, researchers, academicians, and students who are interested in the current issues and advancements in corporate governance and earnings management.

This book presents the economic foundation of international equity investments providing a practical guide to invest in international equity exchange-traded funds (ETFs). It shows how to gain exposure to foreign stock markets through both theoretical foundations of international diversification and in-depth characteristics of global, regional, country-specific, and international sector/thematic ETFs. Unlike other books in the field which broadly discuss different aspects of the ETF market, this book explores one specific market segment, offering the first in-depth and state-of-the-art analysis of international equity ETFs and including, in particular, ETFs with global, regional, single-country, and international sector/thematic exposures. The number and variety of such financial instruments are constantly growing. Hence, it seems obvious that there is an urgent need for a book that will help investors who are willing to diversify their portfolios outside the domestic market--in both developed and emerging/frontier markets. International Equity Exchange-Traded Funds presents a comprehensive review of investment possibilities offered by international ETFs for stock market investors.--

Real-world cost of capital data from across industries and around the globe The 2017 Valuation Handbook – International Industry Cost of

Capital offers the same type of rigorous industry-level analysis published in the U.S.-centric Valuation Handbook – U.S. Industry Cost of Capital. It provides industry-level cost of capital estimates (cost of equity, cost of debt, and weighted average cost of capital, or WACC), plus detailed industry-level statistics for sales, market capitalization, capital structure, various levered and unlevered beta estimates (e.g., ordinary-least squares (OLS) beta, sum beta, peer group beta, downside beta, etc.), valuation (trading) multiples, financial and profitability ratios, equity returns, aggregate forward-looking earnings-per-share (EPS) growth rates, and more. For more information about Duff & Phelps valuation data published by Wiley, please visit www.wiley.com/go/valuationhandbooks. Also Available 2017 Valuation Handbook – International Guide to Cost of Capital 2017 Valuation Handbook – U.S. Guide to Cost of Capital 2017 Valuation Handbook – U.S. Industry Cost of Capital Key Features Four global economic regions: The 2017 Valuation Handbook – International Industry Cost of Capital includes industry-level analyses for four global economic regions: the "World," the European Union, the Eurozone, and the United Kingdom. Industries in the book are identified by their Global Industry Classification Standard (GICS) code (at the 2-, 4-, and 6-digit code level). Three currencies: Each of the four global region's industry analyses are presented in three currencies: the Euro, the British pound, and the U.S. dollar. Covers all the major commodity markets, their products, applications and risks Learn how to invest, hedge and trade in the related physical, equities and derivatives markets Commodities such as oil and gas, food and water, solar and wind power, metals and minerals, animals and fish have become a genuine asset class alongside bonds, equities, and foreign exchange. Mastering the Commodities Markets is an introduction to both the general commodity markets and to specific products: precious metals, oil and other hydrocarbons, rare earth elements, aqua and agriculture, alternative energy and carbon and environmental commodities. Beginning with the basics of commodities and how they have developed as an asset class in their own right, the book then introduces key commodities chapter by chapter, looking at the background and context of each product, their origins and manufacture, key market participants, pricing structures and patterns, risks and how to trade, hedge and use indices. Mastering Commodities Markets includes: Commodity prices and their effect on financial markets Financial and non-financial market participants Economics of commodities, pricing mechanics and markets Trading, hedging, arbitrage and investing Commodity Indices

Highlighting the latest advances in nonparametric and semiparametric statistics, this book gathers selected peer-reviewed contributions presented at the 4th Conference of the International Society for Nonparametric Statistics (ISNPS), held in Salerno, Italy, on June 11-15, 2018. It covers theory, methodology, applications and computational aspects, addressing topics such as nonparametric curve estimation, regression smoothing, models for time series and more generally dependent data, varying coefficient models, symmetry testing, robust estimation, and rank-based methods for factorial design. It also discusses nonparametric and permutation solutions for several different types of data, including ordinal data, spatial data, survival data and the joint modeling of both longitudinal and time-to-event data, permutation and resampling techniques, and practical applications of nonparametric statistics. The International Society for Nonparametric Statistics is a unique global organization, and its international conferences are intended to foster the exchange of ideas and the latest advances and trends among researchers from around the world and to develop and disseminate nonparametric statistics knowledge. The ISNPS 2018 conference in Salerno was organized with the support of the American Statistical Association, the Institute of Mathematical Statistics, the Bernoulli Society for Mathematical Statistics and Probability, the Journal of Nonparametric Statistics and the University of Salerno.

This report provides an evidence-based overview of developments in capital markets globally leading up to the COVID-19 crisis. It

then documents the impact of the crisis on the use of capital markets and the introduction of temporary corporate governance measures.

Celem g?ównym publikacji jest analiza kształtowania rentowności polskich spółek przejmujących w okresach poprzedzających po??czenie jednostek gospodarczych. Badania prowadzone przez autora s? pierwszymi w Polsce tak obszernymi analizami sytuacji finansowej spółek przejmujących w okresie do pi?ciu lat przed po??czeniem. S? one tak?e unikatowe na arenie mi?dzynarodowej. Ksi??ka skierowana jest do przedstawicieli ?rodowiska naukowego, osób podejmujących decyzje o po??czeniu spółek, jak równie? do oceniających zachowania jednostek gospodarczych (bieg?ych rewidentów, bieg?ych s?dowych).

This book contains selected papers presented at the 4th International Seminar of Contemporary Research on Business and Management (ISCRBM 2020), which was organized by the Alliance of Indonesian Master of Management Program (APMMI) and held in Surabaya, Indonesia, 25-27 November 2020. It was hosted by the Master of Management Program Indonesia University and co-hosts Airlangga University, Sriwijaya University, Trunojoyo University of Madura, and Telkom University, and supported by Telkom Indonesia and Triputra. The seminar aimed to provide a forum for leading scholars, academics, researchers, and practitioners in business and management area to reflect on current issues, challenges and opportunities, and to share the latest innovative research and best practice. This seminar brought together participants to exchange ideas on the future development of management disciplines: human resources, marketing, operations, finance, strategic management and entrepreneurship.

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