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Spark in Action Marko Bonaci, Petar Zecevic, 2016-11-03 Summary Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark Fully updated for Spark 2.0 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Big data systems distribute datasets across clusters of machines making it a challenge to efficiently query stream and interpret them Spark can help It is a processing system designed specifically for distributed data It provides easy to use interfaces along with the performance you need for production quality analytics and machine learning Spark 2 also adds improved programming APIs better performance and countless other upgrades About the Book Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark You'll get comfortable with the Spark CLI as you work through a few introductory examples Then you'll start programming Spark using its core APIs Along the way you'll work with structured data using Spark SQL process near real time streaming data apply machine learning algorithms and munge graph data using Spark GraphX For a zero effort startup you can download the preconfigured virtual machine ready for you to try the book's code What's Inside Updated for Spark 2.0 Real life case studies Spark DevOps with Docker Examples in Scala and online in Java and Python About the Reader Written for experienced programmers with some background in big data or machine learning About the Authors Petar Zecevic and Marko Bonaci are seasoned developers heavily involved in the Spark community Table of Contents PART 1 FIRST STEPS Introduction to Apache Spark Spark fundamentals Writing Spark applications The Spark API in depth PART 2 MEET THE SPARK FAMILY Sparkling queries with Spark SQL Ingesting data with Spark Streaming Getting smart with MLlib ML classification and clustering Connecting the dots with GraphX PART 3 SPARK OPS Running Spark Running on a Spark standalone cluster Running on YARN and Mesos PART 4 BRINGING IT TOGETHER Case study real time dashboard Deep learning on Spark with H2O *Spark in Action* Jean-Georges Perrin, 2020-05-12 Summary The Spark distributed data processing platform provides an easy to implement tool for ingesting streaming and processing data from any source In *Spark in Action* Second Edition you'll learn to take advantage of Spark's core features and incredible processing speed with applications including real time computation delayed evaluation and machine learning Spark skills are a hot commodity in enterprises worldwide and with Spark's powerful and flexible Java APIs you can reap all the benefits without first learning Scala or Hadoop Foreword by Rob Thomas About the technology Analyzing enterprise data starts by reading filtering and merging files and streams from many sources The Spark data processing engine handles this varied volume like a champ delivering speeds 100 times faster than Hadoop systems Thanks to SQL support an intuitive interface and a straightforward multilanguage API you can use Spark without learning a complex new ecosystem About the book *Spark in Action* Second Edition teaches you to create end to end analytics applications In this entirely new book you'll learn from interesting Java based examples including a complete data pipeline for processing NASA

satellite data And you ll discover Java Python and Scala code samples hosted on GitHub that you can explore and adapt plus appendixes that give you a cheat sheet for installing tools and understanding Spark specific terms What s inside Writing Spark applications in Java Spark application architecture Ingestion through files databases streaming and Elasticsearch Querying distributed datasets with Spark SQL About the reader This book does not assume previous experience with Spark Scala or Hadoop About the author Jean Georges Perrin is an experienced data and software architect He is France s first IBM Champion and has been honored for 12 consecutive years Table of Contents PART 1 THE THEORY CRIPPLED BY AWESOME EXAMPLES 1 So what is Spark anyway 2 Architecture and flow 3 The majestic role of the dataframe 4 Fundamentally lazy 5 Building a simple app for deployment 6 Deploying your simple app PART 2 INGESTION 7 Ingestion from files 8 Ingestion from databases 9 Advanced ingestion finding data sources and building your own 10 Ingestion through structured streaming PART 3 TRANSFORMING YOUR DATA 11 Working with SQL 12 Transforming your data 13 Transforming entire documents 14 Extending transformations with user defined functions 15 Aggregating your data PART 4 GOING FURTHER 16 Cache and checkpoint Enhancing Spark s performances 17 Exporting data and building full data pipelines 18 Exploring deployment

Financial Accounting and Reporting Barry Elliott, Jamie Elliott, 2019 Financial Accounting Reporting is the book that helps students and professionals succeed in their studies and the workplace by providing practical support and clear principles for applying international standards and preparing financial statements MyLab Accounting is not included Students if MyLab Accounting is a recommended mandatory component of the course please ask your instructor for the correct ISBN and course ID MyLab Accounting should only be purchased when required by an instructor Instructors contact your Pearson representative for more information

Rescaling Sustainability Transitions Maija Halonen, Moritz Albrecht, Irene Kuhmonen, 2024-10-28 This Open Access book explores sustainability transitions with a focus on their influence on the relationships between cores and peripheries the rural and the urban and the large and the small scale The societal changes induced by sustainability transitions are expected to assemble as a variegated and heterogeneous process reproduced by different spatial contexts and scales Hence the practical solutions and impacts of processes framed as sustainability transitions are expected to vary between different localities in terms of their natural material or human resources the heritage of the development their power and market relations virtual and physical connections as well as shifting individual rationalities within and across certain socio economic spaces To highlight these socio spatial processes their alignments frictions and contradictions for sustainability transitions this book and its contributions call for an increased engagement in the scalar aspects of sustainability transitions and their governance The authors argue that rescaling follows from two observations on the extant literature concerning sustainability transitions Firstly there is a call for a stronger engagement of sustainability transitions research with questions of place and relocalization practices their embedded power relations but also questions on small scale trajectories for the territorial and economic materializations in terms of production and market

reach as an alternative to the large scale dominance of resource exploitation and use Secondly there is a call for increased attention to the relational processes and ontological framing that reproduce mobilities and scalar shifts in governance arrangements

Spark in Action, Second Edition Jean-Georges Perrin, 2020-06-02 Summary The Spark distributed data processing platform provides an easy to implement tool for ingesting streaming and processing data from any source In Spark in Action Second Edition you ll learn to take advantage of Spark s core features and incredible processing speed with applications including real time computation delayed evaluation and machine learning Spark skills are a hot commodity in enterprises worldwide and with Spark s powerful and flexible Java APIs you can reap all the benefits without first learning Scala or Hadoop Foreword by Rob Thomas Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Analyzing enterprise data starts by reading filtering and merging files and streams from many sources The Spark data processing engine handles this varied volume like a champ delivering speeds 100 times faster than Hadoop systems Thanks to SQL support an intuitive interface and a straightforward multilanguage API you can use Spark without learning a complex new ecosystem About the book Spark in Action Second Edition teaches you to create end to end analytics applications In this entirely new book you ll learn from interesting Java based examples including a complete data pipeline for processing NASA satellite data And you ll discover Java Python and Scala code samples hosted on GitHub that you can explore and adapt plus appendixes that give you a cheat sheet for installing tools and understanding Spark specific terms What s inside Writing Spark applications in Java Spark application architecture Ingestion through files databases streaming and Elasticsearch Querying distributed datasets with Spark SQL About the reader This book does not assume previous experience with Spark Scala or Hadoop About the author Jean Georges Perrin is an experienced data and software architect He is France s first IBM Champion and has been honored for 12 consecutive years Table of Contents PART 1 THE THEORY CRIPPLED BY AWESOME EXAMPLES 1 So what is Spark anyway 2 Architecture and flow 3 The majestic role of the dataframe 4 Fundamentally lazy 5 Building a simple app for deployment 6 Deploying your simple app PART 2 INGESTION 7 Ingestion from files 8 Ingestion from databases 9 Advanced ingestion finding data sources and building your own 10 Ingestion through structured streaming PART 3 TRANSFORMING YOUR DATA 11 Working with SQL 12 Transforming your data 13 Transforming entire documents 14 Extending transformations with user defined functions 15 Aggregating your data PART 4 GOING FURTHER 16 Cache and checkpoint Enhancing Spark s performances 17 Exporting data and building full data pipelines 18 Exploring deployment

Abandoned Anne Kim, 2020-02-11 Winner of the 2020 Goddard Riverside Stephan Russo Book Prize for Social Justice A deeply affecting expos of America s hidden crisis of disconnected youth in the tradition of Matthew Desmond and Adrian Nicole LeBlanc For the majority of young adults today the transition to independence is a time of excitement and possibility But 4 5 million young people or a stunning 11 5 percent of youth aged sixteen to twenty four experience entry into adulthood as abrupt abandonment a time of disconnection from

school work and family For this growing population of Americans which includes kids aging out of foster care and those entangled with the justice system life screeches to a halt when adulthood arrives Abandoned is the first ever exploration of this tale of dead ends and broken dreams Author Anne Kim skillfully weaves heart rending stories of young people navigating early adulthood alone in communities where poverty is endemic and opportunities almost nonexistent She then describes a growing awareness including new research from the field of adolescent brain science that emerging adulthood is just as crucial a developmental period as early childhood and she profiles an array of unheralded programs that provide young people with the supports they need to achieve self sufficiency A major work of deeply reported narrative nonfiction Abandoned joins the small shelf of books that change the way we see our society and point to a different path forward

Emergency Public Health: Preparedness and Response Girish Bobby Kapur, Jeffrey P. Smith, 2010-10-05 As large scale emergencies continue to pose a threat to U S populations at the local state and national levels the public and private sectors are demanding improved public health preparedness response and cooperation for such events Emergency Public Health provides readers with important information and analysis of key public health crises threatening our local state and national jurisdictions As the first text of its kind in the emerging field of emergency public health it provides a framework for public health professionals policy makers first responders and emergency healthcare providers to plan and implement effective measures to protect the public health of civilian populations during times of emergencies Written by experts with both emergency healthcare and public health backgrounds the case based chapters provide valuable information on the preparedness response and mitigation of emergency public health topics In addition Emergency Public Health contains timely information of key areas such as public health law and the interactions among government jurisdictions Each chapter also includes online resources for the reader to pursue additional web based resources Important features Chapters written by emergency physicians with public health degrees Case based chapters Web resources provided Covers large scale issues such as public health law government jurisdictions NGO s Chapter devoted to specific needs of children Chapter on mental health issues in times of public health emergencies Specific chapters on public health tools such as surveillance and rapid needs assessment Each chapter follows a consistent structure to maintain clarity and continuity throughout the text A Introduction B Historical perspectives C Preparedness D Response E Case study F On line resources Competitive features Covers natural emergencies Covers key topics in terrorism Covers primary topics for disaster medicine Questions for instructors What are the key topics in your course How do you like to prepare your students for public health emergencies What management principles are addressed in your course Do you teach special issues such as children and mental health issues during emergencies Making the Most of Teen Library Volunteers Becca Boland, 2020-03-02 When teens volunteer at the library they gain new skills make connections and build their resumes while libraries benefit from a new generation of advocates This guide shows librarians how to establish or develop a teen volunteer program Advocating a flexible approach

this book speaks to every library including both public and school libraries From small libraries with no budget to large libraries with seemingly endless budgets and everything in between all of the concepts covered can be scaled up or down to meet the needs of the community being served The book begins with the big picture discussing benefits to teens libraries and communities it then reviews volunteer types and volunteer possibilities for teens including the traditional roles of shelving and programming as well as passion led projects programming opportunities and special initiatives and drives Specific volunteer roles are described in depth with instructions for practical applications and concrete examples and experiences from various types of libraries illustrate principles discussed Readers will also learn how to establish volunteer partnerships within and outside of the library The book ends with a discussion of methods for evaluation and assessment [Corporate Social Responsibility, Private Law and Global Supply Chains](#) Andreas Rühmkorf,2015-07-31 Current debate surrounding social responsibility has neglected to fully comprehend the important role of national private law in achieving socially responsible conduct in business *Kraus' Recreation and Leisure in Modern Society* Daniel McLean,Amy Hurd,2014-02-18 With a new full color design with perforated worksheets the Tenth Edition of Kraus Recreation and Leisure in Modern Society provides a detailed introduction to the history developments and current trends in leisure studies It addresses contemporary issues facing the recreation and leisure profession and focuses on challenges and opportunities that impact the profession now as well as years from now Extensive research into emerging trends helps support the text and provide insights into the future Focusing on the ten different types of organizations ranging from nonprofit community organizations and armed forces recreation to sports management and travel and tourism sponsors this classic text text is an invaluable resource for students considering a career in the recreation and leisure industry New to the Tenth Edition Discusses how specific trends such as dramatic shifts in population make up the impact of technology and marketing affect leisure service systems and the recreation and park professions Focus on the role of parks and recreation on the health and wellness of our communities as well as means to combat the obesity epidemic in North America Includes new case studies which allow students to apply knowledge of technology in leisure identify the value and benefits of play and recognize the changing family structures of our modern society [International Disaster Nursing](#) Robert Powers,Elaine Daily,2010-05-03 The effects of a disaster on healthcare can range from conditions that immediately besiege the system with large numbers of patients to catastrophes that strain its long term sustainability Nurses as frontline health professionals must have an understanding of the situations they may face before during and after a disaster and they must develop the skills and strategies to provide effective and immediate care International Disaster Nursing is the first truly comprehensive and internationally focused resource to address the diversity of issues and myriad scenarios that nurses and other health personnel could encounter during a disaster event This text defines the many roles of the nurse within a multidisciplinary team and aids the implementation of the community s disaster plans in a crisis With an alarming increase in the occurrence of disasters in the

last decade International Disaster Nursing is the hallmark text in the field *Brigham Young University Law Review* ,2006

Advances in Combustion Science W. A. Sirignano,Aleksandr Grigor'evich Merzhanov,L. De Luca,1997 Authored by some of the most prestigious international researchers this book contains 21 papers that address five general categories of combustion science flame theory heterogeneous combustion unsteady and cellular combustion turbulent combustion and explosions and detonations The book is dedicated to Yakov B Zel dovich an eminent researcher known for his theoretical works on combustion and detonation who served as the first chairman of the Scientific Council of the Academy of Sciences of the USSR The first five papers give an important perspective of the developments in flame theory and the critical role that Zel dovich played in them The second section examines the issues of heterogeneous combustion and the recent advances in the field Material dealing with unsteady cellular combustion is addressed in the third section and the fourth investigates turbulent combustion The final section treats the subjects of detonations and explosions **BNA's Banking Report** ,2004

America: A Concise History, Combined Volume James A. Henretta,Rebecca Edwards,Robert O. Self,2012-02-15 With fresh interpretations from two new authors wholly reconceived themes and a wealth of cutting edge scholarship the Fifth Edition of America A Concise History is designed to work perfectly with the way you teach the survey today Building on the book s hallmark strengths balance explanatory power and a brief yet comprehensive narrative as well as its outstanding full color visuals and built in primary sources authors James Henretta Rebecca Edwards and Robert Self have shaped America into the ideal brief book for the modern survey course at a value that can t be beat Read the preface **Spark in Action** Petar Bonaći,2016 Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark Fully updated for Spark 2 0 About the Technology Big data systems distribute datasets across clusters of machines making it a challenge to efficiently query stream and interpret them Spark can help It is a processing system designed specifically for distributed data It provides easy to use interfaces along with the performance you need for production quality analytics and machine learning And Spark 2 adds improved programming APIs better performance and countless other upgrades About the Book Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark You ll get comfortable with the Spark CLI as you work through a few introductory examples Then you ll start programming Spark using its core APIs Along the way you ll work with structured data using Spark SQL process near real time streaming data apply machine learning algorithms and munge graph data using Spark GraphX For a zero effort startup you can download the preconfigured virtual machine ready for you to try the book s code What s Inside Updated for Spark 2 0 Real life case studies Spark DevOps with Docker Examples in Scala and online in Java and Python About the Reader Written for experienced programmers with some background in big data or machine learning About the Authors Petar Ze evi and Marko Bona i are seasoned developers heavily involved in the Spark community

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