Business Analysis Fundamentals And Techniques

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Fundamentals of Business Process Management - Marlon Dumas 2018-03-23
This textbook covers the entire Business Process Management (BPM) lifecycle, from process identification to process monitoring, covering along the way process modelling, analysis, redesign and automation. Concepts, methods and tools from business management, computer science and industrial engineering are blended into one comprehensive and inter-disciplinary approach. The presentation is illustrated using the BPMN industry standard defined by the Object Management Group and widely endorsed by practitioners and vendors worldwide. In addition to explaining the relevant conceptual background, the book provides dozens of examples, more than 230 exercises – many with solutions – and numerous suggestions for further reading. This second edition includes extended and completely revised chapters on process identification, process discovery, qualitative process analysis, process redesign, process automation and process monitoring. A new chapter on BPM as an enterprise capability has been added, which expands the scope of the book to encompass topics such as the strategic alignment and governance of BPM initiatives. The textbook is the result of many years of combined teaching experience of the authors, both at the undergraduate and graduate levels as well as in the context of professional training. Students and professionals from both business management and computer science will benefit from the step-by-step style of the textbook and its focus on fundamental concepts and proven methods. Lecturers will appreciate the class-tested format and the additional teaching material available on the accompanying website.

Advances in Computer Science for Engineering and Education IV - Zhengbing Hu 2021-07-21
This book comprises high-quality refereed research papers presented at the Fourth International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2021), held in Kyiv, Ukraine, on January 23–24, 2021, organized jointly by the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", National Aviation University, and the International Research Association of Modern Education and Computer Science. The topics discussed in the book include state-of-the-art papers in computer science, artificial intelligence, engineering techniques, genetic coding systems, deep learning with its medical applications, and knowledge representation with its applications in education. It is an excellent source of references for researchers, graduate students, engineers, management practitioners, and undergraduate students interested in computer science and their applications in engineering and education.

Systems Analysis & Design Fundamentals - Ned Kock 2006-07-12
Systems Analysis & Design Fundamentals: A Business Process Redesign Approach uniquely integrates traditional and modern systems analysis with design methods and techniques. By using a business process redesign approach, author Ned Kock enables readers to understand, in a very applied and practical way, how information technologies can be used to significantly improve organizational quality and productivity.

Fundamentals of Nanoscale Film Analysis - Terry L. Alford 2007-02-16
From materials science to integrated circuit development, much of modern technology is moving from the microscale toward the nanoscale. This book focuses on the fundamental physics underlying innovative techniques for analyzing surfaces and near-surfaces. New analytical techniques have emerged to meet these technological requirements, all based on a few processes that govern the interactions of particles and radiation with matter. This book addresses the fundamentals and application of these processes, from thin films to field effect transistors.

Writing Effective User Stories - Thomas and Angela Hathaway 2013-07-29
WHAT IS THIS BOOK ABOUT? This Book Is About the "Card" (User Story: Card, Criteria, Conversation) User Stories are a great method for expressing stakeholder requirements, whether your projects follow an Agile, Iterative, or a Waterfall methodology. They are the basis for developers to deliver a suitable information technology (IT) app or application. Well-structured user stories express a single action to achieve a specific goal from the perspective of a single role. When writing user stories, stakeholders knowledgeable about the role should focus on the business result that the IT solution will enable while leaving technology decisions up to the developers. Good user stories are relevant to the project, unambiguous, and understandable to knowledge peers. The best user stories also contain crucial non-functional (quality) requirements, which are the best weapon in the war against unsatisfactory performance in IT solutions. This book presents two common user story structures to help you ensure that your user stories have all the required components and that they express the true business need as succinctly as possible. It offers five simple rules to ensure that your user stories are the best that they can be. That, in turn, will reduce the amount of time needed in user story elaboration and discussion with the development team. This book targets business professionals who are involved with an IT project, Product Owners in charge of managing a backlog, or Business Analysts working with an Agile team. Author's Note The term "User Story" is a relative new addition to our language and its definition is evolving. In today's parlance, a complete User Story has three primary components, namely the "Card", the "Conversation", and the "Criteria". Different roles are responsible for creating each component. The "Card" expresses a business need. A representative of the business community is responsible for expressing the business need. Historically (and for practical reasons) the "Card" is the User Story from the perspective of the business community. Since we wrote this book specifically to address that audience, we use the term "User Story" in that context throughout. The "Conversation" is an ongoing discussion between a developer responsible for creating software that meets the business need and the domain expert(s) who defined it (e.g., the original author of the "Card"). The developer initiates the "Conversation" with the domain expert(s) to define the "Criteria" and any additional information the developer needs to create the application. There is much to be written about both the "Conversation" and the "Criteria", but neither component is dealt with in any detail in this publication. A well-written User Story ("Card") can drastically reduce the time needed for the "Conversation". It reduces misinterpretations, misunderstandings, and false starts, thereby paving the way for faster delivery of working software. We chose to limit the content of this publication to the "User Story" as understood by the business community to keep the book focused and address the widest possible audience. WHO WILL BENEFIT FROM READING THIS BOOK? How organizations develop and deliver working software has changed significantly in recent years. Because the change was greatest in the developer community, many books and courses justifiably target that group. There is, however, an overlooked group of people essential to the development of software-as-an-asset that have been neglected. Many distinct roles or job titles in the business community perform business needs analysis for digital solutions. They include: - Product Owners - Business Analysts - Requirements Engineers - Test Developers - Business- and Customer-side Team Members - Agile Team Members - Subject Matter Experts (SME) - Project Leaders and Managers - Systems Analysts and Designers - AND "anyone wearing the business analysis hat", meaning anyone responsible for defining a future IT solution TOM AND ANGELA'S (the

authors) STORY Like all good IT stories, theirs started on a project many years ago. Tom was the super techie, Angela the super SME. They fought their way through the 3-year development of a new policy maintenance system for an insurance company. They vehemently disagreed on many aspects, but in the process discovered a fundamental truth about IT projects. The business community (Angela) should decide on the business needs while the technical team's (Tom)'s job was to make the technology deliver what the business needed. Talk about a revolutionary idea! All that was left was learning how to communicate with each other without bloodshed to make the project a resounding success. Mission accomplished. They decided this epiphany was so important that the world needed to know about it. As a result, they made it their mission (and their passion) to share this ground-breaking concept with the rest of the world. To achieve that lofty goal, they married and began the mission that still defines their life. After over 30 years of living and working together 24x7x365, they are still wildly enthusiastic about helping the victims of technology learn how to ask for and get the digital (IT) solutions they need to do their jobs better. More importantly, they are more enthusiastically in love with each other than ever before!

Surveying Fundamentals for Business Analysts - Carol Deutschlander 2009-09
An Easy Approach to Using Surveys to Elicit Requirements! Surveying is an excellent way to elicit requirements, but reliable resources that examine survey methods are hard to find — until now. Surveying Fundamentals for Business Analysts presents the basics of developing and executing efficient and effective surveys. It offers detailed descriptions of the different types of surveys and guidance on how to choose the right survey for your task as well as how to identify stakeholders and participants. Surveying Fundamentals also presents specific instructions on writing effective questions and gearing them toward a particular audience. This practical guide provides the fundamentals you need to conduct and present the results of surveys — in one simple source. Follow the author's step-by-step approach to: • Determine the scope of the survey • Design questions that will capture specific data • Analyze the data objectively and effectively • Report the findings clearly Add effective surveying to your list of business analysis skills!

Digital Business Analysis - Fredrik Milani 2019-01-25
This book frames business analysis in the context of digital technologies. It introduces modern business analysis techniques, including a selection of those in the Business Analysis Body of Knowledge (BABOK) by the International Institute of Business Analysis (IIBA), and exemplifies them by means of digital technologies applied to solve problems or exploit new business opportunities. It also includes in-depth case studies in which business problems and opportunities, drawn from real-world scenarios, are mapped to digital solutions. The work is summarized in seven guiding principles that should be followed by every business analyst. This book is intended mainly for students in business informatics and related areas, and for professionals who want to acquire a solid background for their daily work. It is suitable both for courses and for self-study. Additional teaching materials such as lecture videos, slides, question bank, exams, and seminar materials are accessible on the companion web-page.

Introduction to IT Project Management - Cynthia Snyder 2006-10
Introduction to IT Project Management provides IT project managers the practical tools needed to maintain daily operations while managing multiple projects. This valuable reference helps IT project managers, CIOs, and project sponsors understand the IT project environment so that projects can be managed much more efficiently and successfully. An instructor's guide is available.

Using Excel for Business Analysis - Danielle Stein Fairhurst 2015-03-17
Utilise Excel 2013 capabilities to build effective financial models Using Excel for Business Analysis, Revised Edition provides practical guidance for anyone looking to build financial models. Whether for business proposals, opportunity evaluation, financial reports, or any other business finance application, this book shows you how to design, create, and test your model, then present your results effectively using Excel 2013. The book opens with a general guide to financial modelling, with each subsequent chapter building skill upon skill until you have a real, working model of your own. Financial tools, features, and functions are covered in detail from a practical perspective, and put in context with application to real-world examples. Each chapter focuses on a different aspect of Excel modelling, including step-by-step instructions that walk you through each feature, and the companion website provides live model worksheets that give you the real hands-on practice you need to start doing your job faster, more efficiently, and with fewer errors. Financial

modelling is an invaluable business tool, and Excel 2013 is capable of supporting the most common and useful models most businesses need. This book shows you how to dig deeper into Excel's functionality to craft effective financial models and provide important information that informs good decision-making. Learn financial modelling techniques and best practice Master the formulas and functions that bring your model to life Apply stress testing and sensitivity analysis with advanced conditionals Present your results effectively, whether graphically, orally, or written A deceptively powerful application, Excel supports many hundreds of tools, features, and functions; Using Excel for Business Analysis eliminates the irrelevant to focus on those that are most useful to business finance users, with detailed guidance toward utilisation and best practice.

Encyclopedia of Software Engineering Three-Volume Set (Print) - Phillip A. Laplante 2010-11-22
Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

Intelligence Analysis Fundamentals - Godfrey Garner 2018-08-06
There are a limited number of intelligence analysis books available on the market. Intelligence Analysis Fundamentals is an introductory, accessible text for college level undergraduate and graduate level courses. While the principles outlined in the book largely follow military intelligence terminology and practice, concepts are presented to correlate with intelligence gathering and analysis performed in law enforcement, homeland security, and corporate and business security roles. Most of the existing texts on intelligence gathering and analysis focus on specific types of intelligence such as 'target centric' intelligence, and many of these, detail information from a position of prior knowledge. In other words, they are most valuable to the consumer who has a working-level knowledge of the subject. The book is general enough in nature that a lay student—interested in pursuing a career in intelligence, Homeland Security, or other related areas of law enforcement—will benefit from it. No prior knowledge of intelligence analysis, functions, or operations is assumed. Chapters illustrate methods and techniques that, over the years, have consistently demonstrate results, superior to those achieved with other means. Chapters describe such analytical methods that are most widely used in the intelligence community and serve as recognized standards and benchmarks in the practice of intelligence analysis. All techniques have been selected for inclusion for their specific application to homeland security, criminal investigations, and intelligence operations. Uses numerous hands-on activities—that can easily be modified by instructors to be more or less challenging depending on the course level—to reinforce concepts As current and active members of the intelligence community, the authors draw on their decades of experience in intelligence to offer real-world examples to illustrate concepts All methodologies reflect the latest trends in the intelligence communities assessment, analysis, and reporting processes with all presented being open source, non-classified information As such, the non-sensitive information presented is appropriate—and methods applicable—for use for education and training overseas and internationally Military-style collection and analysis methods

are the primary ones presented, but all are directly correlated intelligence to current concepts, functions and practices within Homeland Security and the law communities Covers the counterterrorism environment where joint operations and investigative efforts combine military, private sector, and law enforcement action and information sharing The book will be a welcome addition to the body of literature available and a widely used reference for professionals and students alike.

CIMA Fundamentals of Business Mathematics - BPP Learning Media 2012-11-30
BPP Learning Media provides the widest range of study materials of any CIMA publisher. Our comprehensive printed materials highlight the areas to focus on for your exams, and our e-Learning products complement the syllabus to improve your understanding.

Fundamentals of Business Analysis - Howard B. Baltz 1969

The 20 Minute Business Analyst - Mark A. Monteleone 2013-03-25
Who has time to read text books? As a busy business analysis consultant and instructor, my free time is short and precious. That is why I like to read articles. They are brief and to the point. I like quick reference cards for a similar reason – they offer immediate help. I also like humor in the context of the subject. Laughter keeps me interested and awake. If you're busy like me, this book is for you. It is a collection of short business analysis articles, humorous but pertinent stories and quick reference cards. • If you are a business analyst practitioner, these articles will confirm best practices or provide you additional insight as to why they are best practices; no matter how good you are at eliciting and documenting requirements, you can always improve. • If you are a professor at an institution of higher learning, these articles can serve as a source for discussion at both the graduate and undergraduate level.

Business Analysis - Debra Paul 2020-06-27
Business analysts must respond to the challenges of today's competitive global economy by developing practical, creative and financially sound solutions and this excellent guide gives them the necessary tools to do so. It is also ideal for students wanting to gain university and industry qualifications. This fourth edition of the bestseller contains a new chapter on business analysis as a service and includes expanded material on strategic context, modelling business processes and gap analysis.

Data Flow Diagrams – Simply Put! - Thomas and Angela Hathaway 2015-03-29
WHAT IS THIS BOOK ABOUT? Learn about Data Flow Diagrams (DFDs), Context-level DFDs, and Rigorous Physical Process Models (RPPM), what they are, why they are important, and who can use them. Use Data Flow Diagrams to Visualize Workflows An old Chinese proverb says, "A picture is worth a thousand words." In the world of Information Technology (IT), we maintain that it may even be worth a whole lot more. For most people, it is difficult or impossible to envision a process flow, especially when someone else is describing it. Understanding current workflows, however, is critical to defining a future IT solution. Just as critical is understanding how data is created and consumed throughout the workflow. To truly understand problems inherent in a business process or workflow, you need to help the practitioners visualize what they do. Visualization lets them identify better ways of working that remove current restrictions. Data Flow Diagrams are phenomenal tools for visualization. Working with business experts, you can help them identify problems and inefficiencies they don't even know they have. These are not people problems; they are process problems. Understanding when and how to create and use Data Flow Diagrams will help you discover and capture the requirements for improving the use of information technology. Why Should You Take this Course? In "Data Flow Diagrams – Simply Put!", you will learn the benefits of process visualization for the business community, for the one wearing the BA hat, for those tasked with developing the solution, and ultimately for the entire organization. You will also discover how DFDs are powerful tools for recognizing and eliminating two of the major problems that haunt IT projects, namely Scope Creep and Project Overruns caused by late project change requests. This book uses a concrete business scenario to present a simple, easy-to-learn approach for creating and using Data Flow Diagrams depicting workflow and data manipulation from interviews with Subject Matter Experts. You will learn how to create a Context-Level Data Flow Diagram and explode relevant process(es) to reveal the nitty-gritty detail (i.e., individual process and data specifications) that developers need to create IT solutions that the business community needs. This book answers the following questions: - What is a Data Flow Diagram (DFD)? - What is a Rigorous Physical Process Model? - What is a Context-Level DFD? - Why should I use Data Flow Diagrams? - What symbols can I use on each type of diagram? - How can I drill down into a process? - How can I show internal processes and flows that produce the results? - What does balancing a Data Flow Diagram mean and what is the business value? - What is the most efficient approach to balancing a DFD? - What business value do process specifications offer? - How can I express detailed specifications for processes and data? - What is "metadata" and why do you need it? - What does a fully balanced DFD look like? - What value does a DFD fragment provide? - Regardless of your job title or role, if you are tasked with communicating a workflow or functional requirements to others, this book is for you. WHO WILL BENEFIT FROM READING THIS BOOK? Many distinct roles or job titles in the business community perform business needs analysis for digital solutions. They include: - Product Owners - Business Analysts - Requirements Engineers - Test Developers - Business- and Customer-side Team Members - Agile Team Members - Subject Matter Experts (SME) - Project Leaders and Managers - Systems Analysts and Designers - AND "anyone wearing the business analysis hat", meaning anyone responsible for defining a future IT solution TOM AND ANGELA'S (the authors) STORY Like all good IT stories, theirs started on a project many years ago. Tom was the super techie, Angela the super SME. They fought their way through the 3-year development of a new policy maintenance system for an insurance company. They vehemently disagreed on many aspects, but in the process discovered a fundamental truth about IT projects. The business community (Angela) should decide on the business needs while the technical team's (Tom)'s job was to make the technology deliver what the business needed. Talk about a revolutionary idea! All that was left was learning how to communicate with each other without bloodshed to make the project a resounding success. Mission accomplished. They decided this epiphany was so important that the world needed to know about it. As a result, they made it their mission (and their passion) to share this ground-breaking concept with the rest of the world. To achieve that lofty goal, they married and began the mission that still defines their life. After over 30 years of living and working together 24x7x365, they are still wildly enthusiastic about helping the victims of technology learn how to ask for and get the digital (IT) solutions they need to do their jobs better. More importantly, they are more enthusiastically in love with each other than ever before!

Business Analysis Defined - Angela Hathaway 2015-10-31
A Buddhist proverb warns, "Be mindful of intention. Intention is the seed that creates our future." In a very real sense, this statement expresses the reason for business analysis. This discipline is really all about choosing and defining a desired future because without intention (expressed in business analysis terms, "requirements"), no future is more or less desirable than another. In reality, every organization does some form of business analysis whether they use the term or not. For many (especially larger organizations), it is an extremely structured, managed process while others thrive on change and only do business analysis when and as needed. The perception that business analysis is only needed to develop IT solutions is not entirely accurate. Actually, it is a critical component of any change initiative within an organization whether software is involved or not. This book provides insight into this fast-growing field by distinguishing strategic, tactical, and operational business analysis. It is based in part on surveys of what BAs really do and what business analysis techniques people use most often when they are the one "wearing the BA hat". Because of the tight relationship between requirements and information technology, the authors also share their experience on how software development methodologies impact the business analysis responsibility.

Fundamentals of Business Intelligence - Wilfried Grossmann 2015-06-02
This book presents a comprehensive and systematic introduction to transforming process-oriented data into information about the underlying business process, which is essential for all kinds of decision-making. To that end, the authors develop step-by-step models and analytical tools for obtaining high-quality data structured in such a way that complex analytical tools can be applied. The main emphasis is on process mining and data mining techniques and the combination of these methods for process-oriented data. After a general introduction to the business intelligence (BI) process and its constituent tasks in chapter 1, chapter 2 discusses different approaches to modeling in BI applications. Chapter 3 is an overview and provides details of data provisioning, including a section on big data. Chapter 4 tackles data description, visualization, and reporting. Chapter 5 introduces data mining techniques for cross-sectional data. Different techniques for the analysis of temporal data are then detailed in Chapter 6. Subsequently, chapter 7

explains techniques for the analysis of process data, followed by the introduction of analysis techniques for multiple BI perspectives in chapter 8. The book closes with a summary and discussion in chapter 9. Throughout the book, (mostly open source) tools are recommended, described and applied; a more detailed survey on tools can be found in the appendix, and a detailed code for the solutions together with instructions on how to install the software used can be found on the accompanying website. Also, all concepts presented are illustrated and selected examples and exercises are provided. The book is suitable for graduate students in computer science, and the dedicated website with examples and solutions makes the book ideal as a textbook for a first course in business intelligence in computer science or business information systems. Additionally, practitioners and industrial developers who are interested in the concepts behind business intelligence will benefit from the clear explanations and many examples.

Intelligence Analysis Fundamentals - Godfrey Garner 2018-08-06
There are a limited number of intelligence analysis books available on the market. Intelligence Analysis Fundamentals is an introductory, accessible text for college level undergraduate and graduate level courses. While the principles outlined in the book largely follow military intelligence terminology and practice, concepts are presented to correlate with intelligence gathering and analysis performed in law enforcement, homeland security, and corporate and business security roles. Most of the existing texts on intelligence gathering and analysis focus on specific types of intelligence such as 'target centric' intelligence, and many of these, detail information from a position of prior knowledge. In other words, they are most valuable to the consumer who has a working-level knowledge of the subject. The book is general enough in nature that a lay student—interested in pursuing a career in intelligence, Homeland Security, or other related areas of law enforcement—will benefit from it. No prior knowledge of intelligence analysis, functions, or operations is assumed. Chapters illustrate methods and techniques that, over the years, have consistently demonstrate results, superior to those achieved with other means. Chapters describe such analytical methods that are most widely used in the intelligence community and serve as recognized standards and benchmarks in the practice of intelligence analysis. All techniques have been selected for inclusion for their specific application to homeland security, criminal investigations, and intelligence operations. Uses numerous hands-on activities—that can easily be modified by instructors to be more or less challenging depending on the course level—to reinforce concepts As current and active members of the intelligence community, the authors draw on their decades of experience in intelligence to offer real-world examples to illustrate concepts All methodologies reflect the latest trends in the intelligence communities assessment, analysis, and reporting processes with all presented being open source, non-classified information As such, the non-sensitive information presented is appropriate—and methods applicable—for use for education and training overseas and internationally Military-style collection and analysis methods are the primary ones presented, but all are directly correlated intelligence to current concepts, functions and practices within Homeland Security and the law communities Covers the counterterrorism environment where joint operations and investigative efforts combine military, private sector, and law enforcement action and information sharing The book will be a welcome addition to the body of literature available and a widely used reference for professionals and students alike.

Business Analysis For Dummies - Kupe Kupersmith 2013-07-22
Your go-to guide on business analysis Business analysis refers to the set of tasks and activities that help companies determine their objectives for meeting certain opportunities or addressing challenges and then help them define solutions to meet those objectives. Those engaged in business analysis are charged with identifying the activities that enable the company to define the business problem or opportunity, define what the solutions looks like, and define how it should behave in the end. As a BA, you lay out the plans for the process ahead. Business Analysis For Dummies is the go to reference on how to make the complex topic of business analysis easy to understand. Whether you are new or have experience with business analysis, this book gives you the tools, techniques, tips and tricks to set your project's expectations and on the path to success. Offers guidance on how to make an impact in your organization by performing business analysis Shows you the tools and techniques to be an effective business analysis professional Provides a number of examples on how to perform business analysis regardless of your role If you're interested in learning about the tools and techniques used by successful business analysis professionals, Business Analysis For Dummies

has you covered.

Requirements Elicitation Techniques – Simply Put! - Thomas and Angela Hathaway 2016-07-29
WHAT IS THIS BOOK ABOUT? 7 Ways to Improve Your Requirements Elicitation Skills Getting the right requirements from the right people at the right time for your project is a critical success factor for any IT project. Nearly every study over the past 40 years has pinpointed missing and misunderstood IT requirements as the primary cause of IT project failures and overruns. "Requirements Elicitation Techniques – Simply Put!" presents 7 requirements definition techniques that evolved from our work with customers to meet that specific challenge. This book is a continuation of our Requirements Elicitation series. The previously published book "Requirements Elicitation Interviews and Workshops – Simply Put" deals with soft skills (i.e. how to run a requirements workshop) needed to elicit requirements. The book defines the concept of requirements elicitation and explains why it is necessary. It presents specific business analysis techniques for identifying stakeholders, analyzing relevant business problems, helping stakeholders discover what they need and want the solution to deliver, and a set of key questions you need answered to initiate and manage the elicitation process. Applying these techniques will significantly improve your requirements elicitation outcomes. "Requirements Elicitation Techniques – Simply Put!" will help practicing business analysts, future business analysts, subject matter experts, managers, product owners, project managers, and anyone responsible for getting the right requirements from the right people. You will learn how to: - Identify potential stakeholders - Manage the requirements elicitation process - Track progress toward requirements completion - Define and analyze business problems to ferret out hidden requirements - Facilitate effective requirements brainstorming sessions - Use 10 critical questions to initiate the WHO WILL BENEFIT FROM READING THIS BOOK? Many distinct roles or job titles in the business community perform business needs analysis for digital solutions. They include: - Product Owners - Business Analysts - Requirements Engineers - Business- and Customer-side Team Members - Agile Team Members - Subject Matter Experts (SME) - Project Leaders and Managers - Systems Analysts and Designers - AND "anyone wearing the business analysis hat", meaning anyone responsible for defining a future digital solution TOM AND ANGELA'S (the authors) STORY Like all good IT stories, theirs started on a project many years ago. Tom was the super techie, Angela the super SME. They fought their way through the 3-year development of a new policy maintenance system for an insurance company. They vehemently disagreed on many aspects, but in the process discovered a fundamental truth about IT projects. The business community (Angela) should decide on the business needs while the technical team's (Tom)'s job was to make the technology deliver what the business needed. Talk about a revolutionary idea! All that was left was learning how to communicate with each other without bloodshed to make the project a resounding success. Mission accomplished. They decided this epiphany was so important that the world needed to know about it. As a result, they made it their mission (and their passion) to share this ground-breaking concept with the rest of the world. To achieve that lofty goal, they married and began the mission that still defines their life. After over 30 years of living and working together 24x7x365, they are still wildly enthusiastic about helping the victims of technology learn how to ask for and get the digital (IT) solutions they need to do their jobs better. More importantly, they are more enthusiastically in love with each other than ever before!

Methods and Applications of Artificial Intelligence - George A. Vouros 2004-04-22
Arti?cial intelligence has attracted a renewed interest from distinguished sci- tists and has again raised new, more realistic this time, expectations for future advances regarding the development of theories, models and techniques and the use of them in applications pervading many areas of our daily life. The borders of human-level intelligence are still very far away and possibly unknown. Nev- theless, recent scienti?c work inspires us to work even harder in our exploration of the unknown lands of intelligence. This volume contains papers selected for presentation at the 3rd Hellenic Conference on Arti?cial Intelligence (SETN 2004), the o?cial meeting of the Hellenic Society for Arti?cial Intelligence (EETN). The ?rst meeting was held in the University of Piraeus, 1996 and the second in the Aristotle University of Thessaloniki (AUTH), 2002. SETN conferences play an important role in the dissemination of the in- vative and high-quality scienti?c results in arti?cial intelligence which are being produced mainly by Greek scientists in institutes all over the world. However, the most important e?ect of SETN conferences is that they provide

the context in which people meet and get to know each other, as well as a very good opp- tunity for students to get closer to the results of innovative arti?cial intelligence research.

Using Excel for Business Analysis, + Website - Danielle Stein Fairhurst 2012-09-19
A clear, concise, and easy-to-use guide to financial modelling suitable for practitioners at every level Using a fundamental approach to financial modelling that's accessible to both new and experienced professionals, Using Excel for Business Analysis: A Guide to Financial Modelling Fundamentals + Website offers practical guidance for anyone looking to build financial models for business proposals, to evaluate opportunities, or to craft financial reports. Comprehensive in nature, the book covers the principles and best practices of financial modelling, including the Excel tools, formulas, and functions to master, and the techniques and strategies necessary to eliminate errors. As well as explaining the essentials of financial modelling, Using Excel for Business Analysis is packed with exercises and case studies to help you practice and test your comprehension, and includes additional resources online. Provides comprehensive coverage of the principles and best practices of financial modeling, including planning, how to structure a model, layout, the anatomy of a good model, rebuilding an inherited model, and much more Demonstrates the technical Excel tools and techniques needed to build a good model successfully Outlines the skills you need to learn in order to be a good financial modeller, such as technical, design, and business and industry knowledge Illustrates successful best practice modeling techniques such as linking, formula consistency, formatting, and labeling Describes strategies for reducing errors and how to build error checks and other methods to ensure accurate and robust models A practical guide for professionals, including those who do not come from a financial background, Using Excel for Business Analysis is a fundamentals-rich approach to financial modeling.

Seven Steps to Mastering Business Analysis - Barbara A. Carkenord 2009
"This book provides a "how to" approach to mastering business analysis work. It will help build the skill sets of new analysts and all those currently doing analysis work, from project managers to project team members such as systems analysts, product managers and business development professionals, to the experienced business analyst. It also covers the tasks and knowledge areas for the new 2008 v.2 of The Guide to the Business Analysis Body of Knowledge (BABOK) and will help prepare business analysts for the HBA CBAP certification exam."--BOOK JACKET.

Data Analysis Fundamentals Certificate - AICPA 2020-03-24

The Business Analyst's Handbook - Howard Podeswa 2009
One of the objectives of this book is to incorporate best practices and standards in to the BA role. While a number of standards and guidelines, such as Business Process Modeling Notation (BPMN), have been incorporated, particular emphasis has been placed on the Business Analysis Body of Knowledge (BABOK), the Information Technology Infrastructure Library (ITIL), and the Unified Modeling Language (UML).

Surveying Fundamentals for Business Analysts - Carol Deutschlander 2009
Surveying can prove to be an excellent way to elicit requirements. However, up until now, reliable resources that examine survey methods have been hard to find. Surveying Fundamentals for Business Analysts gives you all the basic knowledge you need to develop and execute efficient and effective surveys. It provides detailed descriptions of the different types of surveys and valuable guidance on how to choose the right survey for the task as well as how to identify stakeholders and participants. This practical guide, indispensible for business analysts, takes you through the process step-by-step as you: - Determine the scope of the survey - Design questions that will capture specific data - Analyze the data objectively and effectively - Report the findings clearly

Big Data Fundamentals - Thomas Erl 2015-12-29
"This text should be required reading for everyone in contemporary business." --Peter Woodhull, CEO, Modus21 "The one book that clearly describes and links Big Data concepts to business utility." --Dr. Christopher Starr, PhD "Simply, this is the best Big Data book on the market!" --Sam Rostam, Cascadian IT Group "...one of the most contemporary approaches I've seen to Big Data fundamentals..." --Joshua M. Davis, PhD The Definitive Plain-English Guide to Big Data for Business and Technology Professionals Big Data Fundamentals provides a pragmatic, no-nonsense introduction to Big Data. Best-selling IT author

Thomas Erl and his team clearly explain key Big Data concepts, theory and terminology, as well as fundamental technologies and techniques. All coverage is supported with case study examples and numerous simple diagrams. The authors begin by explaining how Big Data can propel an organization forward by solving a spectrum of previously intractable business problems. Next, they demystify key analysis techniques and technologies and show how a Big Data solution environment can be built and integrated to offer competitive advantages. Discovering Big Data's fundamental concepts and what makes it different from previous forms of data analysis and data science Understanding the business motivations and drivers behind Big Data adoption, from operational improvements through innovation Planning strategic, business-driven Big Data initiatives Addressing considerations such as data management, governance, and security Recognizing the 5 "V" characteristics of datasets in Big Data environments: volume, velocity, variety, veracity, and value Clarifying Big Data's relationships with OLTP, OLAP, ETL, data warehouses, and data marts Working with Big Data in structured, unstructured, semi-structured, and metadata formats Increasing value by integrating Big Data resources with corporate performance monitoring Understanding how Big Data leverages distributed and parallel processing Using NoSQL and other technologies to meet Big Data's distinct data processing requirements Leveraging statistical approaches of quantitative and qualitative analysis Applying computational analysis methods, including machine learning

Failure Analysis - Jose Luis Otegui 2014-01-02
This book addresses the failures of structural elements, i.e. those components whose primary mission is to withstand mechanical loads. The book is intended as a self-contained source for those with different technical grades, engineers and scientists but also technicians in the field can benefit from its reading.

Agile and Business Analysis - Lynda Girvan 2017
Adopting an Agile approach can revolutionize the way business analysts work. It enables clearer vision and success measure definitions, better stakeholder engagement and a greater understanding of customer needs, amongst other benefits. This book provides a comprehensive introduction to Agile methodologies and explains these in the context of business analysis. It is ideal for business analysts wanting to learn Agile practices, working in an Agile environment, or undertaking Agile certifications.

Data Science Fundamentals and Practical Approaches - Dr. Gypsy Nandi 2020-06-02
Learn how to process and analysis data using Python KEY FEATURES - The book has theories explained elaborately along with Python code and corresponding output to support the theoretical explanations. The Python codes are provided with step-by-step comments to explain each instruction of the code. - The book is not just dealing with the background mathematics alone or only the programs but beautifully correlates the background mathematics to the theory and then finally translating it into the programs. - A rich set of chapter-end exercises are provided, consisting of both short-answer questions and long-answer questions. DESCRIPTION This book introduces the fundamental concepts of Data Science, which has proved to be a major game-changer in business solving problems. Topics covered in the book include fundamentals of Data Science, data preprocessing, data plotting and visualization, statistical data analysis, machine learning for data analysis, time-series analysis, deep learning for Data Science, social media analytics, business analytics, and Big Data analytics. The content of the book describes the fundamentals of each of the Data Science related topics together with illustrative examples as to how various data analysis techniques can be implemented using different tools and libraries of Python programming language. Each chapter contains numerous examples and illustrative output to explain the important basic concepts. An appropriate number of questions is presented at the end of each chapter for self-assessing the conceptual understanding. The references presented at the end of every chapter will help the readers to explore more on a given topic. WHAT WILL YOU LEARN Perform processing on data for making it ready for visual plot and understand the pattern in data over time. Understand what machine learning is and how learning can be incorporated into a program. Know how tools can be used to perform analysis on big data using python and other standard tools. Perform social media analytics, business analytics, and data analytics on any data of a company or organization. WHO THIS BOOK IS FOR The book is for readers with basic programming and mathematical skills. The book is for any engineering graduates that wish to apply data science in their projects or wish to build a career in this direction. The book can be read by anyone who has an interest in data analysis and would like to explore more out of interest or to apply it to certain real-life problems. TABLE OF CONTENTS

1. Fundamentals of Data Science1 2. Data Preprocessing 3. Data Plotting and Visualization 4. Statistical Data Analysis 5. Machine Learning for Data Science 6. Time-Series Analysis 7. Deep Learning for Data Science 8. Social Media Analytics 9. Business Analytics 10. Big Data Analytics

Fundamentals of Nanoscale Film Analysis - Terry L. Alford 2010-10-12
From materials science to integrated circuit development, much of modern technology is moving from the microscale toward the nanoscale. This book focuses on the fundamental physics underlying innovative techniques for analyzing surfaces and near-surfaces. New analytical techniques have emerged to meet these technological requirements, all based on a few processes that govern the interactions of particles and radiation with matter. This book addresses the fundamentals and application of these processes, from thin films to field effect transistors.

The Essentials of Business Research Methods - Joe F. Hair Jr. 2015-08-14
Increasingly, managers must make decisions based on almost unlimited information. How can they navigate and organize this vast amount of data? Essentials of Business Research Methods provides research techniques for people who aren't data analysts. The authors offer a straightforward, hands-on approach to the vital managerial process of gathering and using data to make clear business decisions. They include critical topics, such as the increasing role of online research, ethical issues, data mining, customer relationship management, and how to conduct information-gathering activities more effectively in a rapidly changing business environment. This is the only text that includes a chapter on qualitative data analysis, and the coverage of quantitative data analysis is more extensive, and much easier to understand than in other texts. The book features a realistic continuing case throughout that enables students to see how business research information is used in the real world. It includes applied research examples in all chapters, as well as ethical dilemma mini cases, and exercises.

Functional and Non-Functional Requirements – Simply Put! - Thomas and Angela Hathaway 2016-09-03
WHAT IS THIS BOOK ABOUT? Functional and Non-functional Requirements Can Make or Break Your Project Defining solution-level requirements (aka functional and non-functional requirements) is a core competency for anyone in an organization responsible for defining future Information Technology (IT) applications. In this book you will learn simple and repeatable techniques for extracting solution-level specifications from business and stakeholder requirements that are expressed in complete sentence form. My co-author, Angela, and I have used these techniques on hundreds of IT projects around the globe and we know the value each provides. Using these approaches will improve your ability to identify and document requirements at the level of detail that solution providers (vendors or developers) need to deliver the right technology for their organization. The presented techniques will work on any set of well-expressed requirement statements. However, they were specifically designed for and work best with requirement statements that follow the "Rules for Writing Effective Requirements" that we present in our book "How to Write Effective Requirements for IT – Simply Put!". Regardless of your job title or role, if you are involved in defining future business solutions, this book will help you communicate your business needs to solution providers. It will reduce the potential for misunderstandings that undermine IT's ability to deliver the right technology for the business. How to get the most out of this book? To maximize the learning effect, you will have optional, online exercises to assess your understanding of each presented technique. Chapter titles prefaced with the phrase "Exercise" contain a link to online exercises with immediate feedback featuring our recommended resolution and the rationale behind it. These exercises are optional and they do not "test" your knowledge in the conventional sense. Their purpose is to demonstrate the use of the technique more real-life than our explanations can supply. You need Internet access to perform the exercises. We hope you enjoy them and that they make it easier for you to apply the techniques in real life. Specifically, this eWorkbook will give you techniques to: - Decompose Business and Stakeholder Requirement Statements to identify Functional and Non-Functional Requirements - Give those responsible for designing, building, and/or buying the solution the kind of information they need to make the decisions that are right for the business - Identify Informational, Performance, and Constraining Requirements from a list of Functional Requirements - Document and manage Business, Stakeholder, Functional and Non-Functional Requirements - Capture and clarify Business Rules and External Constraints that mandate limits to the delivered solution - Develop measurable Solution Requirements that facilitate End-User Acceptance Testing

WHO WILL BENEFIT FROM READING THIS BOOK? Many distinct roles or job titles in the business community perform business needs analysis for digital solutions. They include: - Product Owners - Business Analysts - Requirements Engineers - Test Developers - Business- and Customer-side Team Members - Agile Team Members - Subject Matter Experts (SME) - Project Leaders and Managers - Systems Analysts and Designers - AND "anyone wearing the business analysis hat", meaning anyone responsible for defining a future IT solution TOM AND ANGELA'S (the authors) STORY Like all good IT stories, theirs started on a project many years ago. Tom was the super techie, Angela the super SME. They fought their way through the 3-year development of a new policy maintenance system for an insurance company. They vehemently disagreed on many aspects, but in the process discovered a fundamental truth about IT projects. The business community (Angela) should decide on the business needs while the technical team's (Tom)'s job was to make the technology deliver what the business needed. Talk about a revolutionary idea! All that was left was learning how to communicate with each other without bloodshed to make the project a resounding success. Mission accomplished. They decided this epiphany was so important that the world needed to know about it. As a result, they made it their mission (and their passion) to share this ground-breaking concept with the rest of the world. To achieve that lofty goal, they married and began the mission that still defines their life. After over 30 years of living and working together 24x7x365, they are still wildly enthusiastic about helping the victims of technology learn how to ask for and get the digital (IT) solutions they need to do their jobs better. More importantly, they are more enthusiastically in love with each other than ever before!

Ratio Analysis Fundamentals - Axel Tracy 2012-12-07
Make Better Business and Investment DecisionsBusiness Managers, Entrepreneurs & Investors will learn to use Financial Statements for:• Profitability comparison, to help improve performance of businesses and investments• Liquidity testing, to assess how comfortably a business can maintain operations• Leverage measurement, which can be used to check risk• Efficiency benchmarking, to improve internal operations• Market-based analysis, to decide between alternative investments"Ratio Analysis Fundamentals" will give the financial statement novice power to add value to business and investments.The book covers 17 Financial Ratios that can be used for the financial analysis of a business.Each financial ratio section provides:• The formula• A worked example• Guidance on where to locate the data in the financial statements• Guidance on how to interpret the result of the ratio analysis calculationAccounting information is too often seen as a necessary compliance issue, or simply 'record-keeping', but with tools like ratio analysis you can look behind the raw numbers and see the 'story' of the business; and this is when accounting information turns from 'record-keeping' into an indispensable value creator.If You Want to getmore use of financial statements for your business and investments then this is the Book to Buy

Propensity Score Analysis - Wei Pan 2015-04-07
This book is designed to help researchers better design and analyze observational data from quasi-experimental studies and improve the validity of research on causal claims. It provides clear guidance on the use of different propensity score analysis (PSA) methods, from the fundamentals to complex, cutting-edge techniques. Experts in the field introduce underlying concepts and current issues and review relevant software programs for PSA. The book addresses the steps in propensity score estimation, including the use of generalized boosted models, how to identify which matching methods work best with specific types of data, and the evaluation of balance results on key background covariates after matching. Also covered are applications of PSA with complex data, working with missing data, controlling for unobserved confounding, and the extension of PSA to prognostic score analysis for causal inference. User-friendly features include statistical program codes and application examples. Data and software code for the examples are available at the companion website (www.guilford.com/pan-materials).

Fundamentals of Demographic Analysis: Concepts, Measures and Methods - Gordon A. Carmichael 2015-11-04
This book offers an ideal introduction to the analysis of demographic data. Inside, readers of all quantitative skill levels will find the information they need to develop a solid understanding of the methods used to study human populations and how they change over time due to such factors as birth, death, and migration. The comprehensive, systematic coverage defines basic concepts and introduces data sources; champions

the use of Lexis diagrams as a device for visualizing demographic measures; highlights the importance of making comparisons (whether over time or between populations at a point in time) that control for differences in population composition; describes approaches to analyzing mortality, fertility, and migration; and details approaches to the important field of population projection. Throughout, the author makes the material accessible for readers through careful exposition, the use of examples, and other helpful features. This book's thorough coverage of basic concepts and principles lays a firm foundation for anyone contemplating undertaking demographic research, whether in a university setting or in a professional employment that takes on a demographic dimension requiring in-house training.

How to Write Effective Requirements for IT – Simply Put! - Thomas and Angela Hathaway 2016-09-03 WHAT IS THIS BOOK ABOUT? Effective Requirements Reduce Project Failures Writing requirements is one of the core competencies for anyone in an organization responsible for defining future Information Technology (IT) applications. However, nearly every independently executed root-cause analysis of IT project problems and failures in the past half-century have identified "misunderstood or incomplete requirements" as the primary cause. This has made writing requirements the bane of many projects. The real problem is the subtle differences between "understanding" someone else's requirement and "sharing a common understanding" with the author. "How to Write Effective Requirements for IT – Simply Put!" gives you a set of 4 simple rules that will make your requirement statements more easily understood by all target audiences. The focus is to increase the "common understanding" between the author of a requirement and the solution providers (e.g., in-house or outsourced IT designers, developers, analysts, and vendors). The rules we present in this book will reduce the failure rate of projects suffering from poor requirements. Regardless of your job title or role, if you are tasked with communicating your future needs to others, this book is for you. How to Get the Most out of this Book? To maximize the learning effect, you will have optional, online exercises to assess your understanding of each presented technique. Chapter titles prefaced with the phrase "Exercise" contain a link to a web-based exercise that we have prepared to give you an opportunity to try the presented technique yourself. These exercises are optional and they do not "test" your knowledge in the conventional sense. Their purpose is to demonstrate the use of the technique more real-life than our explanations can supply. You need Internet access to perform the exercises. We hope you enjoy them and that they make it easier for you to apply the techniques in real life. Specifically, this eWorkbook will give you techniques to: - Express business and stakeholder requirements in simple, complete sentences - Write requirements that focus on the business need - Test the relevance of each requirement to ensure that it is in scope for your project - Translate business needs and wants into requirements as the primary tool for defining a future solution and setting the stage for testing - Create and maintain a question file to reduce the impact of incorrect assumptions - Minimize the risk of scope creep caused by missed requirements - Ensure that your requirements can be easily understood by all target audiences - Confirm that each audience shares a mutual understanding of the requirements - Isolate and address ambiguous words and phrases in requirements. - Use our Peer Perception technique to find words and phrases that can lead to misunderstandings. - Reduce the ambiguity of a statement by adding context and using standard terms and phrases TOM AND ANGELA'S (the authors) STORY Like all good IT stories, theirs started on a project many years ago. Tom was the super techie, Angela the super SME. They fought their way through the 3-year development of a new policy maintenance system for an insurance company. They vehemently disagreed on many aspects, but in the process discovered a fundamental truth about IT

projects. The business community (Angela) should decide on the business needs while the technical team's (Tom)'s job was to make the technology deliver what the business needed. Talk about a revolutionary idea! All that was left was learning how to communicate with each other without bloodshed to make the project a resounding success. Mission accomplished. They decided this epiphany was so important that the world needed to know about it. As a result, they made it their mission (and their passion) to share this ground-breaking concept with the rest of the world. To achieve that lofty goal, they married and began the mission that still defines their life. After over 30 years of living and working together 24x7x365, they are still wildly enthusiastic about helping the victims of technology learn how to ask for and get the digital (IT) solutions they need to do their jobs better. More importantly, they are more enthusiastically in love with each other than ever before!

Using Excel for Business Analysis - Danielle Stein Fairhurst 2012-07-09 A clear, concise, and easy-to-use guide to financial modelling suitable for practitioners at every level Using a fundamental approach to financial modelling that's accessible to both new and experienced professionals, Using Excel for Business Analysis: A Guide to Financial Modelling Fundamentals + Website offers practical guidance for anyone looking to build financial models for business proposals, to evaluate opportunities, or to craft financial reports. Comprehensive in nature, the book covers the principles and best practices of financial modelling, including the Excel tools, formulas, and functions to master, and the techniques and strategies necessary to eliminate errors. As well as explaining the essentials of financial modelling, Using Excel for Business Analysis is packed with exercises and case studies to help you practice and test your comprehension, and includes additional resources online. Provides comprehensive coverage of the principles and best practices of financial modeling, including planning, how to structure a model, layout, the anatomy of a good model, rebuilding an inherited model, and much more Demonstrates the technical Excel tools and techniques needed to build a good model successfully Outlines the skills you need to learn in order to be a good financial modeller, such as technical, design, and business and industry knowledge Illustrates successful best practice modeling techniques such as linking, formula consistency, formatting, and labeling Describes strategies for reducing errors and how to build error checks and other methods to ensure accurate and robust models A practical guide for professionals, including those who do not come from a financial background, Using Excel for Business Analysis is a fundamentals-rich approach to financial modeling.

Geothermal Well Test Analysis - Sadiq J. Zarrouk 2019-04-30 Geothermal Well Test Analysis: Fundamentals, Applications and Advanced Techniques provides a comprehensive review of the geothermal pressure transient analysis methodology and its similarities and differences with petroleum and groundwater well test analysis. Also discussed are the different tests undertaken in geothermal wells during completion testing, output/production testing, and the interpretation of data. In addition, the book focuses on pressure transient analysis by numerical simulation and inverse methods, also covering the familiar pressure derivative plot. Finally, non-standard geothermal pressure transient behaviors are analyzed and interpreted by numerical techniques for cases beyond the limit of existing analytical techniques. Provides a guide on the analysis of well test data in geothermal wells, including pressure transient analysis, completion testing and output testing Presents practical information on how to avoid common issues with data collection in geothermal wells Uses SI units, converting existing equations and models found in literature to this unit system instead of oilfield units