Business Analysis Fundamentals And Techniques

Written by renowned data science experts Foster Provost and Tom Fawcett, Data Science for Business introduces the fundamental principles of data science, and walks you through the "data-analytic thinking" necessary for extracting useful knowledge and business value from the data you collect. This guide also helps you understand the many data-mining techniques in use today. Based on an MBA course Provost has taught at New York University over the past ten years, Data Science for Business provides examples of real-world business problems to illustrate these principles. You’ll not only learn how to improve communication between business stakeholders and data scientists, but also how participate intelligently in your company’s data science projects. You’ll also discover how to think data-analytically, and fully appreciate how data science methods can support business decision-making. Understand how data science fits in your organization—and how you can use it for competitive advantage Treat data as a business asset that requires careful investment if you’re to gain real value Approach business problems data-analytically, using the data-mining process to gather good data in the most appropriate way Learn general concepts for actually extracting knowledge from data Apply data science principles when interviewing data science job candidates

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.

Peter F. Drucker argues that what underlies the current malaise of so many large and successful organizations worldwide is that their theory of the business no longer works. The story is a familiar one: a company that was a superstar only yesterday finds itself stagnating and frustrated, in trouble and, often, in a seemingly unmanageable crisis. The root cause of nearly every one of these crises is not that things are being done poorly. It is not even that the wrong things are being done. Indeed, in most cases, the right things are being done—but fruitlessly. What accounts for this apparent paradox? The assumptions on which the organization has been built and is being run no longer fit reality. These are the assumptions that shape any organization's behavior, dictate its decisions about what to do and what not to do, and define what an organization considers meaningful results. These assumptions are what Drucker calls a company's theory of the business. The Harvard Business Review Classics series offers you the opportunity to make seminal Harvard Business Review articles a part of your permanent management library. Each highly readable volume contains a groundbreaking idea that continues to shape best practices and inspire countless managers around the world—and will have a direct impact on you today and for years to come.

The Agile Extension to the BABOK(R) Guide (Agile Extension) version 2 describes the benefits, activities, tasks, skills, and practices required for effective agile business analysis with a constant focus on delivering business value. The Agile Extension version 2: describes the agile mindset and positions agile business analysis beyond software development introduces a 3-tier rolling planning model to help organizations, teams, and practitioners deliver greater business value incorporates the Business Analysis Core Concept Model(TM) (BACCM(TM)) details the seven principles of agile business analysis The Agile Extension to the BABOK(R) Guide is an ongoing initiative of Agile Alliance and the International Institute of Business Analysis(TM) (IIBA(R)) since 2009. The Agile Extension provides guidance for Agile practitioners or anyone interested in leveraging effective Agile business analysis to create better business outcomes that add real business and customer value

WHAT IS THIS BOOK ABOUT? Business Analysis in the Real World 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 it uses 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 inaccurate. Actually, it is a critical component of any change initiative within an organization whether software is involved or not. Current Business Analysis Techniques and Methods The book defines how business analysis is currently practiced. The authors provide insight into this fast-growing field by distinguishing strategic, tactical, and operational business analysis. It provides surveys of what Business Analysts really do and what business analysis techniques people use most often when they are the one “wearing the BA hat”. You will learn what “requirements” really are and what different types of requirements exist. Because many requirements define future information technology (IT) solutions, the authors share their experience on how Waterfall, Iterative, Agile, and Experimental (aka “Chaotic”) Software Development methodologies impact the business analysis responsibility. Who Needs Business Analysis Skills? Although the field of Business Analysis offers great career opportunities for those seeking employment, some level of business analysis skill is essential for any adult in the business world today. Many of the techniques used in the field evolved from earlier lessons learned in systems analysis and have proven themselves to be useful in every walk of life. We have personally experienced how business analysis techniques help even in your private life. We wrote this book for everyday people in the real world to give you a basic understanding of some core business analysis methods and concepts. If this book answers some of your questions, great. If it raises more questions than it answers (implying that it piqued your curiosity), even better. If it motivates you to learn more about this emerging and fascinating topic, it has served its purpose well. 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 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!

Whether you are new to business analysis, or are experienced and want a more formal approach, it's essential to know and practice the "fundamentals." This course provides participants with the skills needed to help business clients articulate their needs and wants, to document those wants and needs clearly, concisely, and completely, and to learn a repeatable process for verifying that those requirements are included in the final solution. By grasping these core Business Analyst (BA) skills, BAs can contribute significantly to successful projects and the products they create. Many people want to know where to start when they have to choose the first Business Analysis course to do. Business Analysis is by no means a profession that can be mastered in 1 hour, but let's play this game and see how we will prioritize the essence of Business Analysis if we had to teach in 1 hourBusiness Analysis Techniques The Business Analysis Techniques course will provide a high-level overview of the techniques referenced in all Knowledge Area of the Business Analysis Body of Knowledge Guide. Techniques alter the way a business analysis task is performed or describe a specific form the output of a task may take. The techniques discussed in this course are only a subset of the techniques used by practitioners of business analysis. The techniques covered in this course are applicable to enough business analysis practitioners, that a skilled generalist should reasonably be expected to be familiar with the existence and purpose of the techniquesSo Buy This Book Now And Start Your Own Business

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!

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 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.

The number one guide to corporate valuation is back and better than ever Thoroughly revised and expanded to reflect business conditions in today's volatile global economy, Valuation, Fifth Edition continues the tradition of its bestselling predecessors by providing up-to-date insights and practical advice on how to create, manage, and measure the value of an organization. Along with all new case studies that illustrate how valuation techniques and principles are applied in real-world situations, this comprehensive guide has been updated to reflect new developments in corporate finance, changes in accounting rules, and an enhanced global perspective. Valuation, Fifth Edition is filled with expert guidance that managers at all levels, investors, and students can use to enhance their understanding of this important discipline. Contains strategies for multi-business valuation and valuation for corporate restructuring, mergers, and acquisitions Addresses how you can interpret the results of a valuation in light of a company's competitive situation Also available: a book plus CD-ROM package (978-0-470-42469-8) as well as a stand-alone CD-ROM (978-0-470-42457-7) containing an interactive valuation DCF model Valuation, Fifth Edition stands alone in this field with its reputation of quality and consistency. If you want to hone your valuation skills today and improve them for years to come, look no further than this book.

BOOK DESCRIPTIONHave you recently taken on the role of Business Analyst, but have no clue where to start? Were you thrown into a project and given very little direction? How stressful! The entire project team is depending on you to deliver a critical requirements document that is the foundation for the entire project. But the problem is, you have no little to no training, very little direction, and and a very clear time-line of ASAP. What do you do? I've been in this situation, and it is no fun. In the early years of my career when I was a Business Analyst, I had to fumble my way through many projects to learn the tools that I needed to be an effective BA. And then as a manager, I saw many new employees struggle because they weren't properly equipped for the role. But I didn't have the time or budget to send any of them to training. That's when I developed a simple three step process that I taught every new Business Analyst that joined my team. This process allowed me to train all new Business Analysts in ONE DAY, and get them effectively gathering requirements IMMEDIATELY. The feedback that I received was astounding. The employees were more confident in their role, and the stakeholders were very impressed at the skill of the new Business Analysts. But most importantly, they were able to produce and be effective right away. You don't have to struggle any longer. This book will give you the tools and techniques you need to go from Newbie to Pro in one day. You will Learn * The role of the Business Analyst on a project * Systems Analysis and Design techniques * Requirements gathering techniques * Requirements Analysis techniques * How to develop use cases * How to develop a Business Requirements DocumentAs a result: * You will have more confidence in your skills * You will gain credibility with the project team because you will be equipped with the knowledge you need to be an effective team member * You will be able to easily identify who you need to work with to gather requirements * You will be able to deliver a set of requirements that exceeds the expectations of every member of the project teamjf;lsf;lsdjThis book will pay for itself by giving you the confidence needed to take on any software project immediately. What can I say? You NEED this book!Let's get started! Buy Requirements Gathering for the New Business Analyst today to get started on your project now!

This is the story of a breakthrough in competency-based quantitative business education. Begun in 1991 as part of a college-wide effort to revolutionize business education instruction. The foundations of the new approach were the following four competencies: Teamwork, Communication, Creative Thinking and Adapting to Change. The introductory quantitative methods course occupies a critical position in a competency-based curriculum. An effective "quant methods" course must challenge students to enlist quantitative techniques to solve business problems and establish a lifelong link between data analysis and business decision making. Like many other business programs, we formerly gave responsibility for teaching business mathematics, descriptive statistics, and probability to departments outside the business college. As elsewhere, we were deeply concerned that business math and basic stat courses were generally ill-suited to our business curriculum needs. For example, out business curriculum made little use of material from the business calculus course required in our program. We also discovered that anxiety about these quantitative courses were so high that many students postponed taking them until right before graduation. By requiring a course whose material was seldom applied, the not so subtle and erroneous message was sent to students that fundamental math, stat, and probability is not useful in business. For competency-based education to be successful, quantitative learning must be effectively linked to the rest of the curriculum. First, only quantitative tools directly useful to solving fundamental business problems were to be included in the new course. To obtain this core of tools, we surveyed our business faculty to identify critical methods and concepts most needed by students in each major business areas. Next, we designed an entirely new course around this essential core of quantitative tools. Finally, a revolutionary textbook was developed that fosters quantitative learning through the four business competencies and emphasizes these core methods and concepts. After several years of classroom trials and student feedback, Fundamentals of Quantitative Business Methods is the end result of this process. This text, now in its third edition, helps students identify how each of the four competencies relates to mathematical and statistical reasoning and business modeling techniques. Some problems and cases may also be used to develop teamwork skills through cooperative learning. By working and studying in teams, students can better assess how well they understand the material and can help each other to learn critical problem-solving skills.

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!

The book uses a systems-based approach to show how innovation is pervasive in all facets of endeavors, including business, industrial, government, the military, and even academia. It presents chapters that provide techniques and methodologies for achieving the transfer of science and technology assets for innovation applications. By introducing Innovation, the book and offers different viewpoints, both qualitative and quantitative. It includes the role that systems can play and discusses approaches along technical and process issues. There is a showcase of innovation applications, and coverage on how to manage innovation individually as well as within a team and it also includes how to develop, manage, and sustain innovation in various organizations. Open-ended questions and exercises are included at the end of chapters with no need for a solutions manual. Written for the advance-level textbook market as well as for the professional reader, it targets those within the engineering, business, and management fields.

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.

Praise for the first edition: “This excellent text will be useful to everysystem engineer (SE) regardless of the domain. It covers ALLrelevant SE material and does so in a very clear, methodicalfashion. The breadth and depth of the author's presentation ofSE principles and practices is outstanding.” –Philip Allen This textbook presents a comprehensive, step-by-step guide toSystem Engineering analysis, design, and development via anintegrated set of concepts, principles, practices, andmethodologies. The methods presented in this text apply to any typeof human system -- small, medium, and large organizational systemsand system development projects delivering engineered systems orservices across multiple business sectors such as medical,transportation, financial, educational, governmental, aerospace anddefense, utilities, political, and charity, among others. Provides a common focal point for “bridgingthe gap” between and unifying System Users, System Acquirers,multi-discipline System Engineering, and Project, Functional, andExecutive Management education, knowledge, and decision-making fordeveloping systems, products, or services Each chapter provides definitions of key terms,guiding principles, examples, author’s notes, real-worldexamples, and exercises, which highlight and reinforce key SE&Dconcepts and practices Addresses concepts employed in Model-BasedSystems Engineering (MBSE), Model-Driven Design (MDD), UnifiedModeling Language (UMLTM) / Systems Modeling Language(SysMLTM), and Agile/Spiral/V-Model Development such asuser needs, stories, and use cases analysis; specificationdevelopment; system architecture development; User-Centric SystemDesign (UCSD); interface definition & control; systemintegration & test; and Verification & Validation(V&V) Highlights/introduces a new 21st Century SystemsEngineering & Development (SE&D) paradigm that is easy tounderstand and implement. Provides practices that are critical stagingpoints for technical decision making such as Technical StrategyDevelopment; Life Cycle requirements; Phases, Modes, & States;SE Process; Requirements Derivation; System ArchitectureDevelopment, User-Centric System Design (UCSD); EngineeringStandards, Coordinate Systems, and Conventions; et al. Thoroughly illustrated, with end-of-chapter exercises andnumerous case studies and examples, Systems EngineeringAnalysis, Design, and Development, Second Edition is a primarytextbook for multi-discipline, engineering, system analysis, andproject management undergraduate/graduate level students and avaluable reference for professionals.

"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.

An in-depth description of the state-of-the-art of 3D shape analysis techniques and their applications This book discusses the different topics that come under the title of "3D shape analysis". It covers the theoretical foundations and the major solutions that have been presented in the literature. It also establishes links between solutions proposed by different communities that studied 3D shape, such as mathematics and statistics, medical imaging, computer vision, and computer graphics. The first part of 3D Shape Analysis: Fundamentals, Theory, and Applications provides a review of the background concepts such as methods for the acquisition and representation of 3D geometries, and the fundamentals of geometry and topology. It specifically covers stereo matching, structured light, and intrinsic vs. extrinsic properties of shape. Parts 2 and 3 present a range of mathematical and algorithmic tools (which are used for e.g., global descriptors, keypoint detectors, local feature descriptors, and algorithms) that are commonly used for the detection, registration, recognition, classification, and retrieval of 3D objects. Both also place strong emphasis on recent techniques motivated by the spread of commodity devices for 3D acquisition. Part 4 demonstrates the use of these techniques in a selection of 3D shape analysis applications. It covers 3D face recognition, object recognition in 3D scenes, and 3D shape retrieval. It also discusses examples of semantic applications and cross domain 3D retrieval, i.e. how to retrieve 3D models using various types of modalities, e.g. sketches and/or images. The book concludes with a summary of the main ideas and discussions of the future trends. 3D Shape Analysis: Fundamentals, Theory, and Applications is an excellent reference for graduate students, researchers, and professionals in different fields of mathematics, computer science, and engineering. It is also ideal for courses in computer vision and computer graphics, as well as for those seeking 3D industrial/commercial solutions.

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).

Business Analysis Fundamentals and Techniques

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!

Resource added for the Business Analyst program 101021?.

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!

Written for students in undergraduate and graduate statistics courses, as well as for the practitioner who wants to make better decisions from data and models, this updated and expanded second edition of Fundamentals of Predictive Analytics with JMP(R) bridges the gap between courses on basic statistics, which focus on univariate and bivariate analysis, and courses on data mining and predictive analytics. Going beyond the theoretical foundation, this book gives you the technical knowledge and problem-solving skills that you need to perform real-world multivariate data analysis. First, this book teaches you to recognize when it is appropriate to use a tool, what variables and data are required, and what the results might be. Second, it teaches you how to interpret the results and then, step-by-step, how and where to perform and evaluate the analysis in JMP . Using JMP 13 and JMP 13 Pro, this book offers the following new and enhanced features in an example-driven format: an add-in for Microsoft Excel Graph Builder dirty data visualization regression ANOVA logistic regression principal component analysis LASSO elastic net cluster analysis decision trees k-nearest neighbors neural networks bootstrap forests boosted trees text mining association rules model comparison With today's emphasis on business intelligence, business analytics, and predictive analytics, this second edition is invaluable to anyone who needs to expand his or her knowledge of statistics and to apply real-world, problem-solving analysis. This book is part of the SAS Press program.

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.

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.

"Business analysis involves understanding how organizations function to accomplish their purposes and defining the capabilities an organization requires to provide products and services to external stakeholders. ... [This guide contains] a framework that describes the business analysis tasks that must be performed in order to understand how a solution will deliver value to the sponsoring organization." - page 3.

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!

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.

In the present book, How to Win Friends and Influence People, Dale Carnegie says, “You can make someone want to do what you want them to do by seeing the situation from the other person’s point of view and arousing in the other person an eager want.” You learn how to make people like you, win people over to your way of thinking, and change people without causing offense or arousing resentment. For instance, “let the other person feel that the idea is his or hers” and “talk about your own mistakes before criticizing the other person.” This book is all about building relationships. With good relationships, personal and business successes are easy and swift to achieve. Twelve Ways to Win People to Your Way of Thinking 1. The only way to get the best of an argument is to avoid it. 2. Show respect for the other person's opinions. Never say "You're wrong." 3. If you're wrong, admit it quickly and emphatically. 4. Begin in a friendly way. 5. Start with questions to which the other person will answer yes. 6. Let the other person do a great deal of the talking. 7. Let the other person feel the idea is his or hers. 8. Try honestly to see things from the other person's point of view. 9. Be sympathetic with the other person's ideas and desires. 10. Appeal to the nobler motives. 11. Dramatize your ideas. 12.Throw down a challenge.

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.What's New in the 2nd Edition:* Revised and improved content in many sections as a result of the author's further research.* Updated formatting to assist reading experience.* Removal of spelling and grammatical errors to reduce confusion and improve professionalism.If You Want to get more use of financial statements for your business and investments then this is the Book to Buy

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.

“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
To support the broadening spectrum of project delivery approaches, PMI is offering A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition as a bundle with its latest, the Agile Practice Guide. The PMBOK® Guide – Sixth Edition now contains detailed information about agile; while the Agile Practice Guide, created in partnership with Agile Alliance®, serves as a bridge to connect waterfall and agile. Together they are a powerful tool for project managers. The PMBOK® Guide – Sixth Edition – PMI's flagship publication has been updated to reflect the latest good practices in project management. New to the Sixth Edition, each knowledge area will contain a section entitled Approaches for Agile, Iterative and Adaptive Environments, describing how these practices integrate in project settings. It will also contain more emphasis on strategic and business knowledge—including discussion of project management business documents—and information on the PMI Talent Triangle™ and the essential skills for success in today's market. Agile Practice Guide has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was developed as the result of collaboration between the Project Management Institute and the Agile Alliance.
While there are many hundreds of tools, features and functions in Excel, this book focusses only on the ones it is critical for the Finance Business user to know. It covers these features in detail from a practical perspective, but also puts them in context by applying them to practical examples in the real world. It is invaluable for anyone using Excel for Finance, as it helps them to do their jobs faster, more efficiently and with fewer errors. The book is organized into twelve chapters, arranged in order based on different aspects of Excel modelling. This book includes: -step-by-step instructions for how to use each feature that are detailed in

a practical example -live models for readers to build it on their own accompanying excel worksheets downloadable via the website
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.

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

WHAT IS THIS BOOK ABOUT? Do You Need Requirements Interviews and Workshops? A lot of initial uncertainty at the beginning of an IT project comes from not knowing how to approach stakeholders to get their requirements. Should you interview each stakeholder individually or in groups? Whom should you interview first? What can you do to guide stakeholders to give you the information you need to formulate the right requirements? Unfortunately getting other stakeholders to express their needs and wants vis-à-vis a proposed IT solution is a non-trivial challenge. On top of that, you might be dealing with cross-functional needs which complicates the task even more. To meet that challenge, we propose that you need to hone your interpersonal skills, in particular your interviewing skills. If you have never interviewed another person before, this task alone can be intimidating. Why Should You Read This Book? Since interviewing other people for requirements is not an intuitive skill, this book presents a wide range of techniques for planning, preparing, and performing requirements elicitation interviews and workshops as well as polishing and publishing the results. It defines the characteristics of a good requirements interviewer to help you recognize areas for personal growth. To guide you through the intricacies of conducting group interviews, it includes expert advice on facilitating effective Requirements Workshops (JAD, RDW, User Story Workshops, Requirements Gathering Workshops, etc.), a powerful requirements elicitation technique for managing cross-functional group meetings on traditional and Agile software development methodologies. Specifically, this book will help you get more and better requirements by teaching you how to: - Define and distinguish five specific requirements elicitation approaches for interviewing stakeholders - Evaluate the pros and cons of each approach for your organization and project - Recognize the specific challenges and strengths of facilitated requirements workshops involving cross-functional groups of stakeholders - Select the right requirements interviewing mode - Prepare, perform, and manage effective requirements interviews and workshops - Use informational and active listening to capture hidden requirements The presented material is based on our experience gained in consulting contracts with organizations of - every size, from small businesses to multi-nationals and governments. These topics are the core of extensive instructor-led training programs we have presented to tens of thousands of people around the world. As a value add-on, many of the presented ideas are not limited to IT projects; they can improve the outcomes of all of your personal and professional endeavors. 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!

Forecasting is required in many situations. Stocking an inventory may require forecasts of demand months in advance. Telecommunication routing requires traffic forecasts a few minutes ahead. Whatever the circumstances or time horizons involved, forecasting is an important aid in effective and efficient planning. This textbook provides a comprehensive introduction to forecasting methods and presents enough information about each method for readers to use them sensibly.

UX Design and Usability Mentor Book includes best practices and real-life examples in a broad range of topics like: UX design techniques Usability testing techniques such as eye-tracking User interface design guidelines Mobile UX design principles Prototyping Lean product development with agile vs. waterfall Use cases User profiling Personas Interaction design Information architecture Content writing Card sorting Mind-mapping Wireframes Automation tools Customer experience evaluation The book includes real-life experiences to help readers apply these best practices in their own organizations. UX Design and Usability Mentor Book is an extension of best-selling Business Analyst's Mentor Book. Thanks to the integrated business analysis and UX design methodology it presents, the book can be used as a guideline to create user interfaces that are both functional and usable. The Business Analysis Competency Model(R) version 4 is a research and reference guide that provides the foundational information business analysis professionals need to continuously develop skills in real-time in order to meet the needs of organizations and for career growth.