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Don't simply show your data—tell a story with it! *Storytelling with Data* teaches you the fundamentals of data visualization and how to communicate effectively with data. You'll discover the power of storytelling and the way to make data a pivotal point in your story. The lessons in this illuminative text are grounded in theory, but made accessible through numerous real-world examples—ready for immediate application to your next graph or presentation. Storytelling is not an inherent skill, especially when it comes to data visualization, and the tools at our disposal don't make it any easier. This book demonstrates how to go beyond conventional tools to reach the root of your data, and how to use your data to create an engaging, informative, compelling story. Specifically, you'll learn how to: Understand the importance of context and audience Determine the appropriate type of graph for your situation Recognize and eliminate the clutter clouding your information Direct your audience's attention to the most important parts of your data Think like a designer and utilize concepts of design in data visualization Leverage the power of storytelling to help your message resonate with your audience Together, the lessons in this book will help you turn your data into high impact visual stories that stick with your audience. Rid your world of ineffective graphs, one exploding 3D pie chart at a time. There is a story in your data—*Storytelling with Data* will give you the skills and power to tell it! When a person goes to the boss with a problem and the boss agrees to do something about it, the monkey is off his back and onto the boss's. How can managers avoid these leaping monkeys? Here is priceless advice from three famous experts: how managers can meet their own priorities, give back other people's monkeys, and let them solve their own problems. The comic book universe is adventurous, mystifying, and filled with heroes, villains, and cosplaying Comic-Con attendees. This book by one of *Wired* magazine's art directors traverses the graphic world through a collection of pie charts, bar graphs, timelines, scatter plots, and more. *Super Graphic* offers readers a unique look at the intricate and sometimes contradictory storylines that weave their way through comic books, and shares advice for navigating the pages of some of the most popular, longest-running, and best-loved comics and graphic novels out there. From a colorful breakdown of the DC Comics reader demographic to a witty Venn diagram of superhero comic tropes and a Chris Ware sadness scale, this book charts the most arbitrary and monumental characters, moments, and equipment of the wide world of comics. Plus, this is the fixed format version, which includes high-resolution images. Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the *Emergency Response Guidebook*. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a

transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials. Introduces oral reading teaching methods for developing word recognition and comprehension in students. Graph theory is an area in discrete mathematics which studies configurations (called graphs) involving a set of vertices interconnected by edges. This book is intended as a general introduction to graph theory and, in particular, as a resource book for junior college students and teachers reading and teaching the subject at H3 Level in the new Singapore mathematics curriculum for junior college. The book builds on the verity that graph theory at this level is a subject that lends itself well to the development of mathematical reasoning and proof. Revised edition enhanced with an interactive online textbook and TI-Nspire OS3 updates. The Essential VCE Mathematics series has a reputation for mathematical excellence, with an approach developed over many years by a highly regarded author team of practising teachers and mathematicians. This approach encourages understanding through a wealth of examples and exercises, with an emphasis on VCE examination-style questions. New in Standard General Mathematics Second Edition Enhanced TI-N/CP Version:

- An additional chapter on bivariate data with an early introduction to regression analysis, a key topic in Further Mathematics.
- Updated worked examples and exercises, with revisions for CAS calculator use.
- The TI-Nspire CAS is updated to OS3 in the CAS calculator explanations, examples and problems integrated into the text, which also feature the Casio ClassPad
- Page numbers in the printed text reflect the previous TI-nspire and Casio ClassPad version allowing for continuity and compatibility.

Take just one minute a day to quickly assess student progress in basic math skills. This book features 100 quick reproducible drill sheets to help students increase speed in math operations and strengthen problem-solving skills. The 10 problems on each sheet can be done in one or two minutes and are a great warm-up to the daily math lesson. The quick, one-minute format combined with instant feedback makes this a challenging and motivational assignment students will look forward to each day. Students become active learners as they discover mathematical relationships and apply acquired understanding to complex situations and to the solution of realistic problems in each minute. An answer key is included. Note that this book is produced in the United States and may contain some US-based standards. Reading fluency has been identified as a key component of proficient reading. Research has consistently demonstrated significant and substantial correlations between reading fluency and overall reading achievement. Despite the great potential for fluency to have a significant outcome on students' reading achievement, it continues to be not well understood by teachers, school administrators and policy makers. The chapters in this volume examine reading fluency from a variety of perspectives. The initial chapter sketches the history of fluency as a literacy instruction component. Following chapters examine recent studies and approaches to reading fluency, followed by chapters that explore actual fluency instruction models and the impact of fluency instruction. Assessment of reading fluency is critical for monitoring progress and identifying students in need of intervention. Two articles on assessment, one focused on word recognition and the other on prosody, expand our understanding of fluency measurement. Finally, a study from Turkey explores the relationship of various reading competencies, including fluency, in an integrated model of reading. Our hope for this volume is that it may spark a renewed interest in research into reading fluency and fluency instruction and move toward making fluency instruction an even more integral part of all literacy instruction. In this version of his best-selling text, Stewart has reorganized the material so professors can teach transcendental functions (more than just trigonometric functions) early, before the definite integral. This variation introduces the derivative of the log and exponential functions at the same time as the polynomial functions and develops other transcendental functions prior to the introduction of the definite integral. In the new Third Edition, Stewart retains the focus on problem solving, the meticulous accuracy, the patient explanations, and the carefully graded problems that have made this text work so well for a wide range of students. In the new edition, Stewart has increased his emphasis on technology and innovation and has expanded

his focus on problem-solving and applications. ..When writing his previous editions, Stewart set out to bring some of the spirit of Polya to his presentation. This resulted in the "strategy sections" in the First Edition and the "Problems Plus" and "Applications Plus" sections in the Second Edition. Now in the Third Edition, he extends the idea further with a new section on "Principles of Problem Solving" and new extended examples in the "Problems Plus" and "Applications Plus" sections. Stewart makes a serious attempt to help students reason mathematically. The #1 New York Times bestseller. Over 20 million copies sold! Translated into 60+ languages!

Tiny Changes, Remarkable Results No matter your goals, **Atomic Habits** offers a proven framework for improving--every day. James Clear, one of the world's leading experts on habit formation, reveals practical strategies that will teach you exactly how to form good habits, break bad ones, and master the tiny behaviors that lead to remarkable results. If you're having trouble changing your habits, the problem isn't you. The problem is your system. Bad habits repeat themselves again and again not because you don't want to change, but because you have the wrong system for change. You do not rise to the level of your goals. You fall to the level of your systems. Here, you'll get a proven system that can take you to new heights. Clear is known for his ability to distill complex topics into simple behaviors that can be easily applied to daily life and work. Here, he draws on the most proven ideas from biology, psychology, and neuroscience to create an easy-to-understand guide for making good habits inevitable and bad habits impossible. Along the way, readers will be inspired and entertained with true stories from Olympic gold medalists, award-winning artists, business leaders, life-saving physicians, and star comedians who have used the science of small habits to master their craft and vault to the top of their field. Learn how to: make time for new habits (even when life gets crazy); overcome a lack of motivation and willpower; design your environment to make success easier; get back on track when you fall off course; ...and much more. **Atomic Habits** will reshape the way you think about progress and success, and give you the tools and strategies you need to transform your habits--whether you are a team looking to win a championship, an organization hoping to redefine an industry, or simply an individual who wishes to quit smoking, lose weight, reduce stress, or achieve any other goal. Now with a full-color design, the new Fourth Edition of Zill's **Advanced Engineering Mathematics** provides an in-depth overview of the many mathematical topics necessary for students planning a career in engineering or the sciences. A key strength of this text is Zill's emphasis on differential equations as mathematical models, discussing the constructs and pitfalls of each. The Fourth Edition is comprehensive, yet flexible, to meet the unique needs of various course offerings ranging from ordinary differential equations to vector calculus. Numerous new projects contributed by esteemed mathematicians have been added. New modern applications and engaging projects makes Zill's classic text a must-have text and resource for Engineering Math students! Developed from celebrated Harvard statistics lectures, **Introduction to Probability** provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The print book version includes a code that provides free access to an eBook version. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment. Printed in color. **Introductory Business Statistics** is designed to meet the scope and sequence requirements of the one-semester statistics course for business, economics, and related majors. Core statistical concepts and skills have been augmented with practical business examples, scenarios, and exercises. The result is a meaningful understanding of the discipline, which will serve students in their business careers and real-world experiences. Covers a wide variety of topics including understanding patterns; using algebraic symbols; solving problems with graphs, tables, and equations; and more. Works as an end-of-class

activity, extra-credit, or at-home assignment. Includes teaching suggestions, skills matrix, and answer section. Each page includes an attention-grabbing graph, chart, or table with questions to help kids read and interpret the data. Includes bar and line graphs, circle graphs, schedules, pictographs, and lots more. A perfect way to build on kids' interests and prepare them for standardized tests. The best-selling author of *The 7 Minute Difference* demonstrates how small routine choices can enable significant positive changes in personal relationships and goals, outlining specific strategies and tools for identifying key priorities and accomplishing scheduled daily tasks. Book Publication Date: Dec 13, 2023. Full color. *Introductory Statistics 2e* provides an engaging, practical, and thorough overview of the core concepts and skills taught in most one-semester statistics courses. The text focuses on diverse applications from a variety of fields and societal contexts, including business, healthcare, sciences, sociology, political science, computing, and several others. The material supports students with conceptual narratives, detailed step-by-step examples, and a wealth of illustrations, as well as collaborative exercises, technology integration problems, and statistics labs. The text assumes some knowledge of intermediate algebra, and includes thousands of problems and exercises that offer instructors and students ample opportunity to explore and reinforce useful statistical skills. Upgrade your machine learning models with graph-based algorithms, the perfect structure for complex and interlinked data. Summary In *Graph-Powered Machine Learning*, you will learn: The lifecycle of a machine learning project Graphs in big data platforms Data source modeling using graphs Graph-based natural language processing, recommendations, and fraud detection techniques Graph algorithms Working with Neo4J *Graph-Powered Machine Learning* teaches to use graph-based algorithms and data organization strategies to develop superior machine learning applications. You'll dive into the role of graphs in machine learning and big data platforms, and take an in-depth look at data source modeling, algorithm design, recommendations, and fraud detection. Explore end-to-end projects that illustrate architectures and help you optimize with best design practices. Author Alessandro Negro's extensive experience shines through in every chapter, as you learn from examples and concrete scenarios based on his work with real clients! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Identifying relationships is the foundation of machine learning. By recognizing and analyzing the connections in your data, graph-centric algorithms like K-nearest neighbor or PageRank radically improve the effectiveness of ML applications. Graph-based machine learning techniques offer a powerful new perspective for machine learning in social networking, fraud detection, natural language processing, and recommendation systems. About the book *Graph-Powered Machine Learning* teaches you how to exploit the natural relationships in structured and unstructured datasets using graph-oriented machine learning algorithms and tools. In this authoritative book, you'll master the architectures and design practices of graphs, and avoid common pitfalls. Author Alessandro Negro explores examples from real-world applications that connect GraphML concepts to real world tasks. What's inside Graphs in big data platforms Recommendations, natural language processing, fraud detection Graph algorithms Working with the Neo4J graph database About the reader For readers comfortable with machine learning basics. About the author Alessandro Negro is Chief Scientist at GraphAware. He has been a speaker at many conferences, and holds a PhD in Computer Science. Table of Contents PART 1 INTRODUCTION 1 Machine learning and graphs: An introduction 2 Graph data engineering 3 Graphs in machine learning applications PART 2 RECOMMENDATIONS 4 Content-based recommendations 5 Collaborative filtering 6 Session-based recommendations 7 Context-aware and hybrid recommendations PART 3 FIGHTING FRAUD 8 Basic approaches to graph-powered fraud detection 9 Proximity-based algorithms 10 Social network analysis against fraud PART 4 TAMING TEXT WITH GRAPHS 11 Graph-based natural language processing 12 Knowledge graphs Start waking up to your full potential every single day with the updated and expanded edition of the groundbreaking book that has sold more than two million copies. "So much more than a book. It is a proven methodology that will help you fulfil your potential and create the life you've always wanted." —Mel Robbins, New York Times bestselling author of *The High 5 Habit* and *The 5 Second Rule*

Getting everything you want out of life isn't about doing more. It's about becoming more. Hal Elrod and The Miracle Morning have helped millions of people become the person they need to be to create the life they've always wanted. Now, it's your turn. Hal's revolutionary SAVERS method is a simple, effective step-by-step process to transform your life in as little as six minutes per day: - Silence: Reduce stress and improve mental clarity by beginning each day with peaceful, purposeful quiet - Affirmations: Reprogram your mind to overcome any fears or beliefs that are limiting your potential or causing you to suffer - Visualization: Experience the power of mentally rehearsing yourself showing up at your best each day - Exercise: Boost your mental and physical energy in as little as sixty seconds - Reading: Acquire knowledge and expand your abilities by learning from experts - Scribing: Keep a journal to deepen gratitude, gain insights, track progress, and increase your productivity by getting clear on your top priorities This updated and expanded edition has more than forty pages of new content, including: - The Miracle Evening: Optimize your bedtime and sleep to wake up every day feeling refreshed and energized for your Miracle Morning - The Miracle Life: Begin your path to inner freedom so you can truly be happy and learn to love the life you have while you create the life you want From the #1 New York Times bestselling author of the Reckoners series, Words of Radiance, and the Mistborn trilogy comes the first book in an epic new series about a girl who dreams of becoming a pilot in a dangerous world at war for humanity's future. Spensa's world has been under attack for decades. Now pilots are the heroes of what's left of the human race, and becoming one has always been Spensa's dream. Since she was a little girl, she has imagined soaring skyward and proving her bravery. But her fate is intertwined with her father's--a pilot himself who was killed years ago when he abruptly deserted his team, leaving Spensa's chances of attending flight school at slim to none. No one will let Spensa forget what her father did, yet fate works in mysterious ways. Flight school might be a long shot, but she is determined to fly. And an accidental discovery in a long-forgotten cavern might just provide her with a way to claim the stars. And don't miss the #1 New York Times bestselling sequel, Starsight! "[A] nonstop, highflying opener." --Kirkus Reviews, starred review "With this action-packed trilogy opener, Sanderson offers up a resourceful, fearless heroine and a memorable cast." --Publishers Weekly, starred review "Sanderson delivers a cinematic adventure that explores the defining aspects of the individual versus the society. . . . Fans of Sanderson will not be disappointed." --SLJ "It is impossible to turn the pages fast enough." --Booklist The 5-Minute Clinical Consult 2013 Standard Edition provides rapid-access information on the diagnosis, treatment, medications, follow-up, and associated conditions of diseases and conditions. Organized alphabetically by diagnosis, this best-selling clinical reference continues to present brief, bulleted points on disease topics in a consistent 3-column format. FREE 30 Day Access to 5minuteconsult.com online/mobile accompanies this textbook purchase. This trusted, evidence-based content is written by physicians to bring you the information you need fast at the point of care. Features include... More than 900 topics in print and online including over 95 new topics: Asherman Syndrome, Acute Diarrhea, Pulmonary Fibrosis, Gastric Polyp, Hand-Foot-Mouth Disease, IgA Nephropathy, Q Fever, Thymus Cancer and many more Additional 30 algorithms in print and online including Dizziness, Migraine Treatment, Rectal Pain and Vitamin D Deficiency 30 Day FREE Online Access to 5minuteconsult.com Includes... Diseases & Conditions - Thousands of bulleted topics from across our 5-Minute Series to support your patient care decisions 12-in-1 - Access to content from 12 titles (5 Minute: Pain Management, Obstetrics/Gynecology, Pediatrics, Women's Health, Orthopedic, Urology, Cardiology, Emergency Medicine and Clinical as well as Essential Guide to Primary Care Procedures, A Practical Guide to Soft Tissue & Joint Injections and Wallach's Interpretation of Diagnostic Tests Internet Point-of-Care CME - Earn CME credits as you treat your patients at no additional cost Customizable Patient Handouts - Over 1,000 handouts in English/Spanish from AAFP to help educate your patients Procedure Video - Build your skills with procedure videos and also have access to physical therapy videos Drugs - A to Z drug monographs from Facts and Comparison with patient education and interactions Algorithms - Diagnostic and Treatment algorithms linked to associated topic for quick reference Images - Provide visual guidance in areas such as dermatology, radiology etc Updates - Topics, videos, handouts, drugs and more

updated on a regular basis Mobile - Web-enabled mobile access to diseases/conditions, drugs, images, algorithms and lab tests as well as updates An overview of the rapidly growing field of ant colony optimization that describes theoretical findings, the major algorithms, and current applications. The complex social behaviors of ants have been much studied by science, and computer scientists are now finding that these behavior patterns can provide models for solving difficult combinatorial optimization problems. The attempt to develop algorithms inspired by one aspect of ant behavior, the ability to find what computer scientists would call shortest paths, has become the field of ant colony optimization (ACO), the most successful and widely recognized algorithmic technique based on ant behavior. This book presents an overview of this rapidly growing field, from its theoretical inception to practical applications, including descriptions of many available ACO algorithms and their uses. The book first describes the translation of observed ant behavior into working optimization algorithms. The ant colony metaheuristic is then introduced and viewed in the general context of combinatorial optimization. This is followed by a detailed description and guide to all major ACO algorithms and a report on current theoretical findings. The book surveys ACO applications now in use, including routing, assignment, scheduling, subset, machine learning, and bioinformatics problems. AntNet, an ACO algorithm designed for the network routing problem, is described in detail. The authors conclude by summarizing the progress in the field and outlining future research directions. Each chapter ends with bibliographic material, bullet points setting out important ideas covered in the chapter, and exercises. Ant Colony Optimization will be of interest to academic and industry researchers, graduate students, and practitioners who wish to learn how to implement ACO algorithms. SAT MATH TEST BOOK "Ten-frames are a model to help students efficiently gain and develop an understanding of addition and subtraction. The classroom-tested routines, games, and problem-solving lessons in this book use ten-frames to develop students' natural strategies for adding numbers and fit into any set of state standards or curriculum"-- Provided by publisher. Financial Peace Junior is designed to help you teach your kids about money. It's packed with tools, resources and step-by-step instructions for parents. What can be intimidating is made ultra-easy. There are ideas for activities and age-appropriate chores, and you'll have all the tools you need to make learning about money a part of your daily life. Your kids will love the exciting games and toys. The lessons of working, giving, saving and spending are brought to life through fun stories in the activity book, and kids will love tracking their progress on the dry-erase boards Financial Peace Junior doesn't just give you the tools to teach your kids to win with money--it shows you how. Discover how graph databases can help you manage and query highly connected data. With this practical book, you'll learn how to design and implement a graph database that brings the power of graphs to bear on a broad range of problem domains. Whether you want to speed up your response to user queries or build a database that can adapt as your business evolves, this book shows you how to apply the schema-free graph model to real-world problems. This second edition includes new code samples and diagrams, using the latest Neo4j syntax, as well as information on new functionality. Learn how different organizations are using graph databases to outperform their competitors. With this book's data modeling, query, and code examples, you'll quickly be able to implement your own solution. Model data with the Cypher query language and property graph model Learn best practices and common pitfalls when modeling with graphs Plan and implement a graph database solution in test-driven fashion Explore real-world examples to learn how and why organizations use a graph database Understand common patterns and components of graph database architecture Use analytical techniques and algorithms to mine graph database information The Pocket Book is for use by doctors nurses and other health workers who are responsible for the care of young children at the first level referral hospitals. This second edition is based on evidence from several WHO updated and published clinical guidelines. It is for use in both inpatient and outpatient care in small hospitals with basic laboratory facilities and essential medicines. In some settings these guidelines can be used in any facilities where sick children are admitted for inpatient care. The Pocket Book is one of a series of documents and tools that support the Integrated Managem. Graph theory is a fascinating and inviting branch of mathematics. Many problems are

easy to state and have natural visual representations, inviting exploration by new students and professional mathematicians. The goal of this textbook is to present the fundamentals of graph theory to a wide range of readers. The book contains many significant recent results in graph theory, presented using up-to-date notation. The author included the shortest, most elegant, most intuitive proofs for modern and classic results while frequently presenting them in new ways. Major topics are introduced with practical applications that motivate their development, and which are illustrated with examples that show how to apply major theorems in practice. This includes the process of finding a brute force solution (case-checking) when an elegant solution is not apparent. With over 1200 exercises, internet resources (e.g., the OEIS for counting problems), helpful appendices, and a detailed guide to different course outlines, this book provides a versatile and convenient tool for the needs of instructors at a large variety of institutions.

Introducing a radical approach to wellness: This self-help guide rejects 'one-size-fits-all' dieting and health advice to offer practical strategies and tools for getting healthy—your way. What kind of society makes being healthy and happy so difficult that only a single-digit percentage of the population can hope to pull it off? The answer: A sick society. And within a sick society—one where illness, anxiety, and depression are the prevailing norms—what does it mean to be one of the few people to beat those unhealthy odds? It means bucking a lot of your society's norms and rejecting a lot of its conventional health prescriptions. It also means acknowledging a disturbing truth: If you aren't breaking the rules, you're probably breaking yourself. That's the simple, provocative philosophy behind *The Healthy Deviant*, one seasoned health journalist's quest to reframe healthy choices as a positive form of social rebellion. Combining hand-drawn infographics and statistics with insights from sociology, psychology, evolutionary biology, functional medicine, and the school of hard knocks, this category-defying book rejects the idea that diet and exercise alone can save us—or are even the best places to start. Gerasimo's 14-day Healthy-Deviant Adventure Program presents a series of powerful perspective shifts and simple daily practices—plus illustrations, infographics, worksheets, reminders, and progress tracking tools—that put you firmly back in charge of your own wellbeing. Part manifesto, part whispered wake-up call, *The Healthy Deviant* is a modern-day survival guide for being a healthy person in an unhealthy world. Starting now. **NEW YORK TIMES BESTSELLER** • From the bestselling author of *Dark Matter* and the *Wayward Pines* trilogy comes a relentless thriller about time, identity, and memory—his most mind-boggling, irresistible work to date, and the inspiration for Shondaland's upcoming Netflix film. "Gloriously twisting . . . a heady campfire tale of a novel."—*The New York Times Book Review* **NAMED ONE OF THE BEST BOOKS OF THE YEAR BY Time • NPR • BookRiot** Reality is broken. At first, it looks like a disease. An epidemic that spreads through no known means, driving its victims mad with memories of a life they never lived. But the force that's sweeping the world is no pathogen. It's just the first shock wave, unleashed by a stunning discovery—and what's in jeopardy is not our minds but the very fabric of time itself. In New York City, Detective Barry Sutton is closing in on the truth—and in a remote laboratory, neuroscientist Helena Smith is unaware that she alone holds the key to this mystery . . . and the tools for fighting back. Together, Barry and Helena will have to confront their enemy—before they, and the world, are trapped in a loop of ever-growing chaos. Praise for *Recursion* "An action-packed, brilliantly unique ride that had me up late and shirking responsibilities until I had devoured the last page . . . a fantastic read."—Andy Weir, #1 New York Times bestselling author of *The Martian* "Another profound science-fiction thriller. Crouch masterfully blends science and intrigue into the experience of what it means to be deeply human."—*Newsweek* "Definitely not one to forget when you're packing for vacation . . . [Crouch] breathes fresh life into matters with a mix of heart, intelligence, and philosophical musings."—*Entertainment Weekly* "A trippy journey down memory lane . . . [Crouch's] intelligence is an able match for the challenge he's set of overcoming the structure of time itself."—*Time* "Wildly entertaining . . . another winning novel from an author at the top of his game."—*AV Club* Discover how graph algorithms can help you leverage the relationships within your data to develop more intelligent solutions and enhance your machine learning models. You'll learn how graph analytics are uniquely suited to unfold complex structures and reveal difficult-to-find

patterns lurking in your data. Whether you are trying to build dynamic network models or forecast real-world behavior, this book illustrates how graph algorithms deliver value—from finding vulnerabilities and bottlenecks to detecting communities and improving machine learning predictions. This practical book walks you through hands-on examples of how to use graph algorithms in Apache Spark and Neo4j—two of the most common choices for graph analytics. Also included: sample code and tips for over 20 practical graph algorithms that cover optimal pathfinding, importance through centrality, and community detection. Learn how graph analytics vary from conventional statistical analysis Understand how classic graph algorithms work, and how they are applied Get guidance on which algorithms to use for different types of questions Explore algorithm examples with working code and sample datasets from Spark and Neo4j See how connected feature extraction can increase machine learning accuracy and precision Walk through creating an ML workflow for link prediction combining Neo4j and Spark College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure that the book meets the needs of a variety of courses. College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking students to apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the course. Chapter 1: Prerequisites Chapter 2: Equations and Inequalities Chapters 3-6: The Algebraic Functions Chapter 3: Functions Chapter 4: Linear Functions Chapter 5: Polynomial and Rational Functions Chapter 6: Exponential and Logarithm Functions Chapters 7-9: Further Study in College Algebra Chapter 7: Systems of Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory This is a textbook for an introductory combinatorics course that can take up one or two semesters. An extensive list of problems, ranging from routine exercises to research questions, is included. In each section, there are also exercises that contain material not explicitly discussed in the preceding text, so as to provide instructors with extra choices if they want to shift the emphasis of their course. Just as with the first edition, the new edition walks the reader through the classic parts of combinatorial enumeration and graph theory, while also discussing some recent progress in the area: on the one hand, providing material that will help students learn the basic techniques, and on the other hand, showing that some questions at the forefront of research are comprehensible and accessible for the talented and hard-working undergraduate. The basic topics discussed are: the twelfold way, cycles in permutations, the formula of inclusion and exclusion, the notion of graphs and trees, matchings and Eulerian and Hamiltonian cycles. The selected advanced topics are: Ramsey theory, pattern avoidance, the probabilistic method, partially ordered sets, and algorithms and complexity. As the goal of the book is to encourage students to learn more combinatorics, every effort has been made to provide them with a not only useful, but also enjoyable and engaging reading.