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With iText, one can transform PDF documents into live, interactive applications quickly and easily. This free and open source library for Java and .NET is the leading tool of its kind, and was primarily developed and maintained by Bruno Lowagie, the author of this book. iText in Action, Second Edition offers an introduction and a practical guide to iText and the internals of PDF. While at the entry level iText is easy to learn, there's an astonishing range of things you can do once you dive below the surface. This book lowers the learning curve and, through numerous innovative and practical examples, unlocks the secrets hidden in Adobe's PDF

Reference. This totally revised new edition introduces the new functionality added to iText in recent releases, and it updates all examples from JDK 1.4 to Java 5. The examples are in Java but they can be easily adapted to .NET. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. Written by an attorney with over 30 years of experience in the music industry, *Music Publishing: The Complete Guide* is the definitive manual on music copyright. Whereas many books on the subject are aimed at artists and songwriters, this book will serve as a thorough guide for industry pros, lawyers, and music business and law students. Subjects covered include copyright; performing rights organizations; mechanical, synchronization, and print licensing; songwriter and composer agreements; publishing administration and foreign sub-publishing; production music libraries; pitching and placement companies; sampling; and much more. The discussion also delves into historical perspective and current trends and revenue opportunities in the evolving digital marketplace. Easy-to-read narratives explain the key points for all of these types of deals. There are many sample agreements included in the book, all annotated in simple terms that explain the often complex contract language. There are also links to copyright and publishing resources, listings of foreign performance and mechanical societies, and anecdotes and case studies from real world incidents. If you're looking for a thorough grounding and go-to reference book on music copyright, not just a quick crash course, your search is over. This textbook was developed as a joint project between the National Fallen Firefighters Foundation (NFFF) and Fire Protection Publications. It provides a detailed overview and implementation strategies for the 16 Fire Fighter Life Safety Initiatives that were developed by the NFFF at their landmark summit in 2004. Each of the chapters was

written by a different highly-respected fire service subject matter expert on that topic. This text provides the information necessary to meet the FESHE courses Principles of Fire and Emergency Services Safety and Survival (associate degree level) and Advanced Principles in Fire and Emergency Services Safety and Survival (bachelor degree level). The fastest, easiest, most comprehensive way to learn Adobe Audition CC Classroom in a Book®, the best-selling series of hands-on software training workbooks, offers what no other book or training program does—an official training series from Adobe, developed with the support of Adobe product experts. Adobe Audition CC Classroom in a Book contains 17 lessons that cover the basics and beyond, providing countless tips and techniques to help you become more productive with the program. You can follow the book from start to finish or choose only those lessons that interest you. Purchasing this book includes valuable online extras. Follow the instructions in the book's "Getting Started" section to unlock access to:

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What you need to use this book: Adobe Audition CC software, for either Windows or macOS. (Software not included.) Note: Classroom in a Book does not replace the documentation, support, updates, or any other benefits of being a registered owner of Adobe Audition CC software. "An updated and expanded edition of Tatum's Chicano Popular Culture (2001), touching upon major developments in popular culture since the book's original publication"-- Provided by publisher. A fun, colorful, community-based resource that illustrates the beautiful diversity of gender - a gender 101 for everyone! Professional development and leadership with you in mind A good friend once said about Chase Sargent that he's "a very intelligent man, but he sure does tick people off sometimes." Sargent doesn't disagree. He may have made some people mad, but he wishes he had done it more often to get this point across: "Leadership—in all aspects of life—is sorely lacking." The second edition of From Buddy to

Boss: Effective Fire Service Leadership reinforces the fact that the fire service is screaming for leaders as men and women discover that leadership is important to their existence and success. Being a firefighter can be tiring and frustrating, but it can be rewarding. It's not only about the job, "but also about raising kids, managing your life, and trying to be a good person, attached to God, country, family, and friends," says the author. Many leaders today are surrounded by external politics, hidden agendas, fiscal constraints, and manipulative people. Consider these factors when navigating your career. Sargent knows from decades of experience that simply reaching the top of the organizational ladder does not make you a good leader. Before he went into teaching this subject, "It became apparent very quickly that the leadership and human resources training being provided was as scarce as water in a desert and that the fire service was thirsty." This new second edition includes must-read topics on leadership lessons from the War in Iraq, knowing death in the fire service, and providing leadership in large-scale disasters. This book will change your life. This book is a user's guide for writing papers, short memos, and emails when the objective is to inform a busy reader preoccupied with other tasks. The objective is to make sure that all the information needed to understand the main points is in the paper and in the right order, minimizing or eliminating extraneous information and ideas, and resolving inconsistencies. The guide offers a mix of strategic and tactical advice, ranging from how to get started to how to order information in a paragraph. It is not a book about grammar; nor is it a treatise on critical thinking. Grammar and style are undeniably important, but elegantly written sentences will fail to communicate your conclusions if the flow of ideas and information is flawed. If the flow of ideas and information is muddled, your reader will seldom read the paper in its entirety. The primary target audiences for the Guide are policymakers, intelligence analysts, law enforcement officers, and the business world, but the principles underlying the teaching points are applicable to anyone seeking to communicate ideas more effectively—including high school and university students. A single

dramatic software failure can cost a company millions of dollars - but can be avoided with simple changes to design and architecture. This new edition of the best-selling industry standard shows you how to create systems that run longer, with fewer failures, and recover better when bad things happen. New coverage includes DevOps, microservices, and cloud-native architecture. Stability antipatterns have grown to include systemic problems in large-scale systems. This is a must-have pragmatic guide to engineering for production systems. If you're a software developer, and you don't want to get alerts every night for the rest of your life, help is here. With a combination of case studies about huge losses - lost revenue, lost reputation, lost time, lost opportunity - and practical, down-to-earth advice that was all gained through painful experience, this book helps you avoid the pitfalls that cost companies millions of dollars in downtime and reputation. Eighty percent of project life-cycle cost is in production, yet few books address this topic. This updated edition deals with the production of today's systems - larger, more complex, and heavily virtualized - and includes information on chaos engineering, the discipline of applying randomness and deliberate stress to reveal systematic problems. Build systems that survive the real world, avoid downtime, implement zero-downtime upgrades and continuous delivery, and make cloud-native applications resilient. Examine ways to architect, design, and build software - particularly distributed systems - that stands up to the typhoon winds of a flash mob, a Slashdotting, or a link on Reddit. Take a hard look at software that failed the test and find ways to make sure your software survives. To skip the pain and get the experience...get this book. Rather than view social inequality as a problem for marginalized populations, Power and Everyday Practices turns the spotlight on the ways power and privilege are produced and reproduced in our everyday worlds Summary Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. Following the crystal-clear explanations, real-world examples, and around 100 diagrams, you'll discover time-saving patterns and best practices for security, performance tuning, and unit testing. Purchase of the print book includes a

free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology There's a mismatch in the way OO programs and relational databases represent data. Entity Framework is an object-relational mapper (ORM) that bridges this gap, making it radically easier to query and write to databases from a .NET application. EF creates a data model that matches the structure of your OO code so you can query and write to your database using standard LINQ commands. It will even automatically generate the model from your database schema. About the Book Using crystal-clear explanations, real-world examples, and around 100 diagrams, Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. You'll start with a clear breakdown of Entity Framework, long with the mental model behind ORM. Then you'll discover time-saving patterns and best practices for security, performance tuning, and even unit testing. As you go, you'll address common data access challenges and learn how to handle them with Entity Framework. What's Inside Querying a relational database with LINQ Using EF Core in business logic Integrating EF with existing C# applications Applying domain-driven design to EF Core Getting the best performance out of EF Core Covers EF Core 2.0 and 2.1 About the Reader For .NET developers with some awareness of how relational databases work. About the Author Jon P Smith is a full-stack developer with special focus on .NET Core and Azure. Table of Contents Part 1 - Getting started Introduction to Entity FrameworkCore Querying the database Changing the database content Using EF Core in business logic Using EF Core in ASP.NET Core web applications Part 2 - Entity Framework in depth Configuring nonrelational properties Configuring relationships Configuring advanced features and handling concurrency conflicts Going deeper into the DbContext Part 3 - Using Entity Framework Core in real-world applications Useful software patterns for EF Core applications Handling database migrations EF Core performance tuning A worked example of performance tuning Different database types and EF Core services Unit testing EF Core applications Appendix A - A brief introduction to LINQ Appendix B - Early information on EF Core

version 2.1 Making Nutrition Your Business, Second Edition is an essential and comprehensive resource for creating, growing, and maintaining a successful nutrition private practice. It is a complete roadmap to beginning a nutrition-based business, providing detailed advice on: Structuring your business, Money management, Setting up and equipping an office, Using technology to your advantage, Marketing and growing your business, Billing and reimbursement, Getting clients to return, and more. Written by two experienced private practitioners with thriving businesses, this hands-on second edition includes more guidance on setting up third-party reimbursement and becoming an insurance provider, a new chapter featuring success stories from private practice dietitians, and a comprehensive resources section. It is a must-read for all dietetics professionals who aspire to go out on their own!

Book jacket. Occupational therapy is an allied health profession with an underlying belief that engaging in occupations promotes both health and wellness. This comprehensive text lays the foundation for occupation-based practice and addresses the contextual issues of working within the acute care setting. The chapters help to demystify medical conditions and issues routinely encountered by occupational therapists working in this practice area. Detailed research covers the importance of occupational therapists' knowledge of how diseases affect the human body, including the cardiovascular, nervous, and endocrine systems. Chapters review the evaluation process, including chart review, measures, and interpretations and recommendations for intervention to ensure the ultimate level of independence for each patient. Occupational Therapy in Acute Care is designed specifically for therapists working in a hospital setting to acquire better knowledge of the various body systems, common conditions, diseases, and procedures. Students and educators will find this new publication to be the most useful text available on the topic. The book features color illustrations of the human body's systems and functions, as well as tables delineating the signs and symptoms for various diseases. HIGHLIGHTS include: \* Evaluation of the Acute Care Patient \* The Intensive Care Unit (ICU) \* The Cardiac System \* The Vascular

System \* The Pulmonary System \* The Nervous System \* Orthopedics and Musculoskeletal Disorders \* The Endocrine System \* The Gastrointestinal System \* The Genitourinary System \* Oncology \* Infectious Diseases and Autoimmune Disorders \* Dysphagia \* Transplantation \* Burns \* Appendices -- Common diagnostic tests, medications, deconditioning and immobility, energy conservation, patients with altered mental status, low vision, bariatrics, vertigo, safe patient handling, pain management, evidence-based practice, ethics, discharge planning, blood disorder

Does your ecommerce site attract visitors but fail to convert enough of them into paying customers? Are your sales numbers not where you want? Have you got an ecommerce site but not yet spent any time on improving the design? If it's time to upgrade your website's user experience then Designing Ecommerce Websites is the only book to tell you exactly how to do it. It provides you with 66 guidelines on how to best use every element on each page of an ecommerce website. This book contains the results of a decade's worth of UX design experience, and several years spent consulting with a wide range of different ecommerce startups. It is based on knowledge learned from user behaviour data and running many different usability tests. It tells you what works in reality, not in theory. The book itself was born from teaching the principles in workshops for over four years. These are principles that are useful to a range of job roles (not just designers) and no matter what your experience level. This book will take you step by step through the ecommerce funnel that applies to almost all ecommerce sites via scannable text and simple illustrations. It's a reference book that is designed to be easy to pick up and quickly learn from. Design LANDING pages that stop users from being confused and bouncing; Create LISTINGS that help your users find a product they actually want to buy; Design PRODUCT pages that don't leave the users with any fears about buying from you; Develop a CHECKOUT flow that results in more successful payments; And learn MORE advice about the other key pages on an ecommerce site. This is the second edition of the book and it features completely rewritten and updated advice for 2019, 15 totally new guidelines, and links to

further reading for every guideline (so you can learn even more). The first edition was an Amazon Kindle bestseller in the ecommerce and technology business categories. In the second edition of *Leading Modern Learning, A Blueprint for Vision Driven Schools* authors Jay McTighe and Greg Curtis offer the reader a fully rethought version of their blueprint for major education reform. More than a simple refresh, this new edition incorporates new insights, thinking, and experiences to refine approaches to, and tools for, implementing effective modern learning practices in a department, school, or district. With new *Notes From the Field* elements, McTighe and Curtis highlight key observations from their work with schools, including how to avoid potential missteps, misunderstandings, and time wasters that inhibit progress when implementing reform. . The *JOYful Table* has over 150 family friendly gluten and grain-free Paleo recipes. The author, Susan Joy created the recipes with her family in mind, as she didn't want to cook two different meals while healing her body from Fatty Liver disease. They aren't fussy and time consuming, just full of hearty flavours. This book is much more than a recipe book it is a recipe for good health. The New York Times bestseller is back! The career workbook *Roadmap* is better than ever. *Roadmap* has been updated and expanded with tons of brand new content—including chapters on changing directions mid-career and not letting your past define your future. Through inspirational stories and interviews, journal-like prompts, and practical career development information, this helpful resource will steer students, recent graduates, and career-changers toward an authentic, fulfilling life. • Features fresh perspectives from people like singer-songwriter John Legend, surfing world champion Layne Beachley, and MacArthur fellow and radio host Jad Abumrad • Full of advice for people seeking a fulfilling work life that will make them happy and keep them engaged • A self-mapped guide to creating a rewarding and satisfying work life *Roadtrip Nation*, based in Costa Mesa, was founded by Nathan Gebhard, Mike Marriner, and Brian McAllister in 2001, and has grown into a national career exploration movement, educational organization, and PBS series. Since its original publication in 2015, the

team at *Roadtrip Nation* has continued to travel the world and interview accomplished individuals about their path to success. • Great for recent college graduates, interns, or anyone questioning their career path and in need of advice and a fresh perspective • Useful as a resource for career advisers, educators, and companies who want to foster an engaged workforce • Add it to the collection of books like *What Color Is Your Parachute? 2019: A Practical Manual for Job-Hunters and Career-Changers* by Richard N. Bolles, *Designing Your Life: How to Build a Well-Lived, Joyful Life* by Bill Burnett and Dave Evans, and *How to Have a Good Day: Harness the Power of Behavioral Science to Transform Your Working Life* by Caroline Webb A fully revised and updated new edition of the classic history of western America The newly revised second edition of this concise, engaging, and unorthodox history of America's West has been updated to incorporate new research, including recent scholarship on Native American lives and cultures. An ideal text for course work, it presents the West as both frontier and region, examining the clashing of different cultures and ethnic groups that occurred in the western territories from the first Columbian contacts between Native Americans and Europeans up to the end of the twentieth century. *Concert of Voices* combines poetry, fiction, drama, and essays in an anthology of world literature in English. This second edition preserves the first edition's breadth and its balance of established and less widely known authors, while including a large selection of exciting new material. Biographical information and explanatory notes have been updated and expanded, and new pieces by Cyril Dabydeen, Vikram Seth, Wole Soyinka, Pauline Johnson, Rudy Wiebe, and many other authors have been added. *The Living Word* provides an introduction to the Sacred Scriptures and to the unfolding of salvation history, with a particular focus on Jesus Christ as the fulfillment of salvation history. Revelation, both Divine and natural, is explored, as are inspiration, interpretation, and exegesis. The second edition of our popular *Living In Christ* series offers updated navigation, organizing and synchronizing curriculum across both teacher guides and student books. The student books have shifted from a section-part-article structure

to a unit-chapter-article structure where sections become units and a part is now a chapter. Learn how fireground size-up can make your operations efficient, effective, and safe. Fire officers have many decisions to make when they approach a scene—decisions that could mean the difference between life and death. Pre-incident information combined with your on-scene size-up give the fire officer the advantage of knowing what to expect when arriving and operating at a fire scene. In this definitive guide to fireground size-up, author Michael A. Terpak gives firefighters an in-depth and expanded review of 15 size-up points to help them make decisions that are efficient, effective, and safe. In each different type of building referenced, Terpak covers the following points: -- Construction concerns --Occupancy --Apparatus and staffing --Life hazard --Terrain --Water supply --Auxiliary appliances and aides --Street conditions --Weather --Exposures --Area -- Location and extent of fire --Time --Height -- Special considerations For those considering Extreme Programming, this book provides no-nonsense advice on agile planning, development, delivery, and management taken from the authors' many years of experience. While plenty of books address the what and why of agile development, very few offer the information users can apply directly. This course in real analysis begins with the usual measure theory, then brings the reader quickly to a level where a wider than usual range of topics can be appreciated. Topics covered include Lp- spaces, rearrangement inequalities, sharp integral inequalities, distribution theory, Fourier analysis, potential theory, and Sobolev spaces. To illustrate these topics, there is a chapter on the calculus of variations, with examples from mathematical physics, as well as a chapter on eigenvalue problems (new to this edition). For graduate students of mathematics, and for students of the natural sciences and engineering who want to learn tools of real analysis. Assumes a previous course in calculus. Lieb is affiliated with Princeton University. Loss is affiliated with Georgia Institute of Technology. c. Book News Inc. (Black & White version) Fundamentals of Business was created for Virginia Tech's MGT 1104 Foundations of Business through a collaboration between the Pamplin College of

Business and Virginia Tech Libraries. This book is freely available at: <http://hdl.handle.net/10919/70961> It is licensed with a Creative Commons-NonCommercial ShareAlike 3.0 license. This second edition of Teaching Social Studies Today has been updated to reflect the latest research and today's best practices in social studies instruction. Authored by Kathleen Kopp, this invaluable resource focuses on implementing social studies instruction with a language arts instructional lens. It addresses effective research-supported ways to differentiate instruction, as well as how curriculum can be extended, accelerated, and enriched for the C3 framework. Packed with various teaching methods and techniques, up-to-date research-based theory and practical applications, and easy-to-implement strategies and techniques, this book is essential reading for both novice and seasoned teachers. In this new, authoritative textbook, internationally recognized metadata experts Zeng and Qin have created a comprehensive primer for advanced undergraduate, graduate, or continuing education courses in information organization, information technology, cataloging, digital libraries, electronic archives, and, of course, metadata. A compact introduction to the field of racial discrimination law that explains the origins, principal themes, leading voices, and new directions of this important movement in legal thought. This revised edition includes material on key issues such as colorblind jurisprudence, Latino-critical scholarship, immigration, and the rollback of affirmative action. Keep the lights on as you dive into M.K. Williams' debut sci-fi apocalyptic thriller, Nailbiters! If you survived the apocalypse but lost your humanity in the process, did you really survive? When the invasion begins, we all scatter like insects when the lights turn on. Nailbiters is not a post-apocalyptic tale, it is apocalyptic, it follows Dora as the world begins to end and society crumbles. Nailbiters is a story of survival. The first in a hard science fiction series, this story will keep you up at night. On the morning of the invasion, Dora takes off running. She lasts three weeks before she is captured. Follow her story from the open plains of Texas to the desert of California. Readers have called this technothriller “chilling” and

“visceral.” Find out why they haven’t been able to put it down. Can Dora survive the invasion with her humanity intact? Read Nailbiters today to find out. This updated edition enables readers to understand how academic libraries deliver information, offer services, and provide learning spaces in new ways to better meet the needs of today's students, faculty, and other communities of academic library users. The Utopia Reader compiles primary texts from a variety of authors and movements in the history of theorizing utopias. Utopianism is defined as the various ways of imagining, creating, or analyzing the ways and means of creating an ideal or alternative society. Prominent writers and scholars across history have long explored how or why to envision different ways of life. The volume includes texts from classical Greek literature, the Old Testament, and Plato’s Republic, to Sir Thomas More’s Utopia, to George Orwell’s Nineteen Eighty-Four and beyond. By balancing well-known and obscure examples, the text provides a comprehensive and definitive collection of the various ways Utopias have been conceived throughout history and how Utopian ideals have served as criticisms of existing sociocultural conditions. This new edition includes many historically well-known works, little known but influential texts, and contemporary writings, providing an even more expansive coverage of the varieties of approaches and responses to the concept of utopia in the past, present, and even the future. In particular, the volume now includes feminist writings and work by authors of color, and contends with current concerns, such as the exploration of the ecological ideals of Utopia. Furthermore, Claeys and Sargent highlight twenty-first century trends and popular narrative explorations of Utopias through the genres of young adult dystopias, survivalist dystopias, and non-print utopias. Covering a range of original theories of utopianism and revealing the nuances and concerns of writers across history as they attempt to envision different, ideal societies, The Utopia Reader is an essential resource for anyone who envisions a better future. Cary takes on the big questions in Working with English Language Learners. He answers them with examples drawn from actual classes that demonstrate outstanding ELL

practices; coaching commentary that highlights key teaching strategies and ties together theory and practice; and professional reflection questions and action items, new to the second edition, that encourage strong, responsive ELL practices. Also includes updated and expanded lists of teacher resources, ELL references and acronyms, new samples of student work, helpful tools, templates, and self-assessment rubrics for teachers. --From publisher's description.

Refactoring is gaining momentum amongst the object oriented programming community. It can transform the internal dynamics of applications and has the capacity to transform bad code into good code. This book offers an introduction to refactoring. Your customers want rock-solid, bug-free software that does exactly what they expect it to do. Yet they can't always articulate their ideas clearly enough for you to turn them into code. You need Cucumber: a testing, communication, and requirements tool-all rolled into one. All the code in this book is updated for Cucumber 2.4, Rails 5, and RSpec 3.5. Express your customers' wild ideas as a set of clear, executable specifications that everyone on the team can read. Feed those examples into Cucumber and let it guide your development. Build just the right code to keep your customers happy. You can use Cucumber to test almost any system or any platform. Get started by using the core features of Cucumber and working with Cucumber's Gherkin DSL to describe-in plain language-the behavior your customers want from the system. Then write Ruby code that interprets those plain-language specifications and checks them against your application. Next, consolidate the knowledge you've gained with a worked example, where you'll learn more advanced Cucumber techniques, test asynchronous systems, and test systems that use a database. Recipes highlight some of the most difficult and commonly seen situations the authors have helped teams solve. With these patterns and techniques, test Ajax-heavy web applications with Capybara and Selenium, REST web services, Ruby on Rails applications, command-line applications, legacy applications, and more. Written by the creator of Cucumber and the co-founders of Cucumber Ltd., this authoritative guide will give you and your team all the knowledge you need to start using

Cucumber with confidence. What You Need: Windows, Mac OS X (with XCode) or Linux, Ruby 1.9.2 and upwards, Cucumber 2.4, Rails 5, and RSpec 3.5 The latest iteration of KiCad, the world's best free-to-use Printed Circuit Board tool, is packed with features usually found only in expensive commercial CAD tools. This modern, cross-platform application suite built around schematic and design editors, with auxiliary applications is a stable and mature PCB tool. KiCad 6 is a perfect fit for electronic engineers and hobbyists. Here are the most significant improvements and features in KiCad 6, both over and under the hood:> Modern user interface, completely redesigned from earlier versions> Improved and customizable electrical and design rule checkers> Theme editor allowing you to customize KiCad on your screen> Ability to import projects from Eagle, CADSTART, and more> Enhanced bus handling> Full control over the presentation of information by the layout editor> Filters define selectable elements> Enhanced interactive router helps you draw single tracks and differential pairs with precision> New or enhanced tools to draw tracks, measure distances, tune track lengths, etc.> Enhanced tool for creating filled zones> Easy data exchange with other CAD applications> Realistic ray-tracing capable 3D viewer> Huge community of contributors that make KiCad better every day> Rich repositories of symbol, footprint, and 3D shape libraries This book will teach you to use KiCad through a practical approach. It will help you become productive quickly and start designing your own boards. Example projects (e.g., a simple breadboard power supply and a PCBA 4×8×8 LED matrix array) illustrate the basic features of KiCad, even if you have no prior knowledge of PCB design. The author describes the entire workflow from schematic entry to the intricacies of finalizing the files for PCB production and offers sound guidance on the process. Further full-fledged projects, of incremental difficulty, will be presented in a second book, together with a variety of advanced recipes. The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the

most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning. "Provides explanation of elements of USP Hazardous Drugs' Handling in Healthcare Settings and best practices to comply with the requirements and recommendations of the USP General Chapter"--Pref.

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