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Improving your C# Skills Hachette UK

A thorough, up-to-date guide to groundwater science and technology Our understanding of the occurrence and movement of water under the Earth's surface is constantly advancing, with new models, improved drilling equipment, new research, and refined techniques for managing this vital resource. Responding to these tremendous changes, David Todd and new coauthor Larry Mays equip readers with a thorough and up-to-date grounding in the science and technology of groundwater hydrology. Groundwater Hydrology, Third Edition offers a unified presentation of the field, treating fundamental principles, methods, and problems as a whole. With this new edition, you'll be able to stay current with recent developments in groundwater hydrology, learn modern modeling methods, and apply what you've learned to realistic situations. Highlights of the Third Edition * New example problems and case studies, as well as problem sets at the end of each

chapter. * A special focus on modern groundwater modeling methods, including a new chapter on modeling (Chapter 9), which describes the U. S. Geological Survey MODFLOW model. * Over 300 new figures and photos. * Both SI and U.S. customary units in the example problems. * Expanded coverage of groundwater contamination by chemicals. * New references at the end of each chapter, which provide sources for research and graduate study. Student and instructor resources for this text are available on the book's website at www.wiley.com/college/todd.

Windows 10 At Work For Dummies "O'Reilly Media, Inc."

Based in large part on the comprehensive "First Course in Ring Theory" by the same author, this book provides a comprehensive set of problems and solutions in ring theory that will serve not only as a teaching aid to instructors using that book, but also for students, who will see how ring theory theorems are applied to solving ring-theoretic problems and how good proofs are written. The author demonstrates that problem-solving is a lively process: in "Comments" following many solutions he discusses what happens if a hypothesis is removed, whether the exercise can be further generalized, what would be a concrete example for the exercise, and so forth. The book is thus much more than a solution manual.

Biomedicine Examined IGI Global

Students can explore a variety of subjects with these cross-curricular Internet activities. Designed for educators and students, this guide to telecommunications and the Internet demystifies the technology and provides relevant, feasible, and easy-to-implement ideas and activities for the classroom. Expanded coverage of Web resources and cross-curricular activities are available in this new edition. Projects (arranged by subject area), encourage students to explore the Internet and help them learn in a variety of areas. All activities are presented in reproducible format and are readily integrated into the curriculum. The authors also give a basic overview of Internet access and navigation. A glossary, index, Internet resource list, and illustrations complete the work.

Mastering Selenium WebDriver 3.0 Springer Science & Business Media

"Now in its seventh edition, this classic communication text retains the philosophy and tradition of the preceding editions. The seventh edition covers the latest treatment of digital communication systems. - Written as a textbook for junior or senior engineering students, it is also appropriate for an introductory graduate course."--Jacket.

Fixing Windows XP Annoyances John Wiley & Sons

System Simulation Techniques with MATLAB and Simulink comprehensively explains how to use MATLAB and Simulink to perform dynamic systems simulation tasks for engineering and non-engineering applications. This book begins with covering the fundamentals of MATLAB programming and applications, and the solutions to different mathematical problems in simulation. The fundamentals of Simulink modelling and simulation are then presented, followed by coverage of intermediate level modelling skills and more advanced techniques in Simulink modelling and applications. Finally the modelling and simulation of engineering and non-engineering systems are presented. The areas covered include electrical, electronic systems, mechanical systems, pharmacokinetics systems, video and image processing systems and discrete events systems. Hardware-in-the-loop simulation and real-time application are also discussed. Key features: Progressive building of simulation skills using Simulink, from basics through to advanced levels, with illustrations and examples. Wide coverage of simulation topics of applications from engineering to non-engineering systems. Dedicated chapter on hardware-in-the-loop simulation and real-time control. End of chapter exercises. A companion website hosting a solution manual and powerpoint slides. System Simulation Techniques with MATLAB and Simulink is a suitable textbook for senior undergraduate/postgraduate courses covering modelling and simulation, and is also an ideal reference for researchers and practitioners in industry.

Oracle Database 12c Performance Tuning Recipes Prentice Hall

Always wanted to build a robot but didn't know where to start? This user-friendly guide shows what robots can do, how they work, and more. Ready to enter the world of robotics? Then this book is for you! If you don't know much about electronics, high-tech tools, or computer programming, that's okay. If you can work with some basic tools (such as pliers, a screwdriver, and a cutting knife), have a computer and know your way around it, and want to make a robot, you're in the right place. Robot Building For Dummies walks you through building your very own little metal assistant from a kit, dressing it up, giving it a brain, programming it to do things, and even making it talk. In this hands-on guide that's illustrated with step-by-step instructions and written in plain English, you get an overview of robotics and the tools, technology, and skills you need to become a robot builder. You'll discover the various approaches to robot building, such as building from scratch or starting with a kit. The mechanical parts of a robot and how they fit together. The components of an efficient workspace and how to set one up. Programming basics you need to enter and download commands into your robot. How to add a controller, which lets you download software programs to your robot. Using an editor program to connect to your robot. The importance of preparing the parts of a robot kit and then assembling the chassis, wheels, and sensor whiskers. The fun of making your robot functional by adding motion detection, light sensors, and more. How to troubleshoot common problems and fix them to save your robot's life. Along the way, you'll gather tidbits about robot history, enthusiasts' groups, a list of parts suppliers, and all-important safety tips. As an added bonus, Robot Building For Dummies comes with rebates for your robot building kit - no more waiting, grab your copy and start building your robot today.

The LEGO MINDSTORMS NXT 2.0 Discovery Book IGI Global

Atkins' Physical Chemistry: Molecular Thermodynamics and Kinetics is designed for use on the second semester of a quantum-first physical chemistry course. Based on the hugely popular Atkins' Physical Chemistry, this volume approaches molecular thermodynamics with the assumption that students will have studied quantum mechanics in their first semester. The exceptional quality of previous editions has been built upon to make this new edition of Atkins' Physical Chemistry even more closely suited to the needs of both lecturers and students. Re-organised into discrete 'topics', the text is more flexible to teach from and more readable for students. Now in its eleventh edition, the text has been enhanced with additional learning features and maths support to demonstrate the absolute centrality of mathematics to physical chemistry. Increasing the digestibility of the text in this new approach, the reader is brought to a question, then the math is used to show how it can be answered and progress made. The expanded and redistributed maths support also includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques right where they need them. Checklists of key concepts at the end of each topic add to the extensive learning support provided throughout the book, to reinforce the main take-home messages in each section. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure Atkins' Physical Chemistry remains the textbook of choice for studying physical chemistry.

Hibernate Tips Springer Nature

Java continues to grow and evolve, and this cookbook continues to evolve in tandem. With this

guide, you'll get up to speed right away with hundreds of hands-on recipes across a broad range of Java topics. You'll learn useful techniques for everything from string handling and functional programming to network communication. Each recipe includes self-contained code solutions that you can freely use, along with a discussion of how and why they work. If you're familiar with Java basics, this cookbook will bolster your knowledge of the language and its many recent changes, including how to apply them in your day-to-day development. This updated edition covers changes through Java 12 and parts of 13 and 14. Recipes include: Blade, Laravel's powerful custom templating tool. Methods for compiling, running, and debugging. Packaging Java classes and building applications. Manipulating, comparing, and rearranging text. Regular expressions for string and pattern matching. Handling numbers, dates, and times. Structuring data with collections, arrays, and other types. Object-oriented and functional programming techniques. Input/output, directory, and filesystem operations. Network programming on both client and server. Processing JSON for data interchange. Multithreading and concurrency. Using Java in big data applications. Interfacing Java with other languages.

The Smart Solution Book "O'Reilly Media, Inc."

Sharpen your coding skills by exploring established computer science problems! Classic Computer Science Problems in Java challenges you with time-tested scenarios and algorithms. Summary Sharpen your coding skills by exploring established computer science problems! Classic Computer Science Problems in Java challenges you with time-tested scenarios and algorithms. You'll work through a series of exercises based in computer science fundamentals that are designed to improve your software development abilities, improve your understanding of artificial intelligence, and even prepare you to ace an interview. As you work through examples in search, clustering, graphs, and more, you'll remember important things you've forgotten and discover classic solutions to your "new" problems! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Whatever software development problem you're facing, odds are someone has already uncovered a solution. This book collects the most useful solutions devised, guiding you through a variety of challenges and tried-and-true problem-solving techniques. The principles and algorithms presented here are guaranteed to save you countless hours in project after project. About the book Classic Computer Science Problems in Java is a master class in computer programming designed around 55 exercises that have been used in computer science classrooms for years. You'll work through hands-on examples as you explore core algorithms, constraint problems, AI applications, and much more. What's inside Recursion, memoization, and bit manipulation. Search, graph, and genetic algorithms. Constraint-satisfaction problems. K-means clustering, neural networks, and adversarial search. About the reader For intermediate Java programmers. About the author David Kopec is an assistant professor of Computer Science and Innovation at Champlain College in Burlington, Vermont. Table of Contents 1 Small problems 2 Search problems 3 Constraint-satisfaction problems 4 Graph problems 5 Genetic algorithms 6 K-means clustering 7 Fairly simple neural networks 8 Adversarial search 9 Miscellaneous problems 10 Interview with Brian Goetz iOS Swift Game Development Cookbook "O'Reilly Media, Inc."

Performance problems are rarely "problems" per se. They are more often "crises" during which you're pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk. You won't have the time for a leisurely perusal of the manuals, nor to lean back and read a book on theory. What you need in that situation is a book of solutions, and solutions are precisely what Oracle Database 12c Performance Tuning Recipes delivers. Oracle Database 12c Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes," showing by example how to perform common tasks in that chapter's domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, if it's performance-related, you'll probably find a recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems. Offers relevant background and theory to support each solution. Gets straight to the point for when you're under pressure for results. What you'll learn Optimize the use of memory and storage. Monitor performance and troubleshoot problems. Identify and improve poorly-performing SQL statements. Adjust the most important optimizer parameters to your advantage. Create indexes that get used and make a positive impact upon performance. Automate and stabilize using key features such as SQL Tuning Advisor and SQL Plan Baselines. Who this book is for Oracle Database 12c Performance

Tuning Recipes is aimed squarely at Oracle Database administrators. The book especially appeals to those administrators desiring to have at their side a ready-to-go set of solutions to common database performance problems. Table of Contents Optimizing Table Performance Choosing and Optimizing Indexes Optimizing Instance Memory Monitoring System Performance Minimizing System Contention Analyzing Operating System Performance Troubleshooting the Database Creating Efficient SQL Manually Tuning SQL Tracing SQL Execution Automated SQL Tuning Execution Plan Optimization and Consistency Configuring the Optimizer Implementing Query Hints Executing SQL in Parallel

The Modern C# Challenge No Starch Press

This book lends insight into solving some well-known AI problems using the most efficient methods by humans and computers. The book discusses the importance of developing critical-thinking methods and skills, and develops a consistent approach toward each problem: 1) a precise description of a well-known AI problem coupled with an effective graphical representation; 2) discussion of possible approaches to solving each problem; 3) identifying and presenting the best known human solution to each problem; 4) evaluation and discussion of the Human Window aspects for the best solution; 5) a playability site where students can exercise the process of developing their solutions, as well as "experiencing" the best solution; 6) code or pseudo-code implementing the solution algorithm, and 7) academic references for each problem. Features: Addresses AI problems well known to computer science and mathematics students from a number of perspectives. Covers classic AI problems such as Twelve Coins, Red Donkey, Cryptarithms, Rubik's Cube, Missionaries/Cannibals, Knight's Tour, Monty Hall, and more. Includes a companion CD-ROM with source code, solutions, figures, and more. Includes playability sites where students can exercise the process of developing their solutions. Describes problem-solving methods which may be applied to many problem situations.

Java Cookbook Windows 10 May 2020 Update Problems and Solutions May 2020, Microsoft released an updated version of Windows 10 which is now available online for download and update.

However, people still have challenges in accessing, downloading, and installing the update. And that is the essence of this guide. This update, which is also referred to as Windows 10 version 2004, has brought a host of interesting features to Microsoft's desktop OS. These include improved search functionality, all-new File manager, password-free logins support, and new experiences of Cortana with the digital support being changed to become a separate app while providing more conversational interactions. "Your device may not see the new update as we are slowly constraining the accessibility over the upcoming weeks, or your device might experience compatibility problems for which a precaution is in place until we have a full guarantee that you will have a good update experience, Microsoft says." Windows 10 May 2020 Update problems still exist with this latest release, and in this book, I have listed the most common problems people experience during and after installing this latest May 2020 Update, along with guides on how to fix them. So, in case you are experiencing a problem trying to fix your Windows 10 May 2020 update issues, then you are at the right place. The Internet and Instruction

With literally hundreds of examples and thousands of lines of code, the Java Servlet and JSP Cookbook yields tips and techniques that any Java web developer who uses JavaServer Pages or servlets will use every day, along with full-fledged solutions to significant web application development problems that developers can insert directly into their own applications. Java Servlet and JSP Cookbook presents real-world problems, and provides concise, practical solutions to each. Finding even one tested code "recipe" that solves a gnarly problem in this comprehensive collection of solutions and best practices will save hours of frustration--easily justifying the cost of this invaluable book. But "Java Servlet and JSP Cookbook" is more than just a wealth of cut-and-paste code. It also offers clear explanations of how and why the code works, warns of potential pitfalls, and directs you to sources of additional information, so you can learn to adapt the problem-solving techniques to similar situations. These recipes include vital topics like the use of Ant to setup a build environment, extensive coverage of the WAR file format and web.xml deployment descriptor, file-uploading, error-handling, cookies, logging, dealing with non-HTML content, multimedia, request filtering, web services, I18N, web services, and a host of other topics that frustrate even the most seasoned developers. For Java web developers of all levels who are eager to put into practice the theory presented in other API-focused books, the solutions presented in this practical book will prove invaluable over and over again. This is a painless way for less experienced developers who prefer to learn by doing to expand their skills and productivity, while accomplishing practical solutions to the pressing problems they face every day. More experienced

developers can use these recipes to solve time-consuming problems quickly, freeing up their time for the more creative aspects of their work.

Oxford University Press, USA

Landau, contributing editor to "Macworld" magazine and the Webmaster for MacFixIt, a Web site for Mac troubleshooting, offers clear, step-by-step instructions that are as useful for near-beginners as for pros. Not only does Landau show readers how to fix things and prevent problems, but he sharpens their diagnostic skills so they can fix problems that aren't discussed in the book.

[Atkins' Physical Chemistry 11e](#) Springer Science & Business Media

The Smart Solution Book explains each tool in detail – what it is, when and how to use it, its strengths and its limitations. The tools range from quick fixes, which can be used by someone working alone, to large scale solutions which can be used by groups of 100 and more. You can also use the tools separately or in combination with each other. Frame problems so they can be solved Find a solution to even the most intractable problem Enjoy the process of problem solving, whether alone or in collaboration with others Become more creative in your thinking so that, over time, solutions begin to present themselves The Smart Solution Book will change your way of thinking about business problems: apply the techniques and see the solutions unfold. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Windows XP Cookbook Simon and Schuster

When you use Hibernate in your projects, you quickly recognize that you need to do more than just add @Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. Hibernate Tips - More than 70 solutions to common Hibernate problems shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for

basic attributes and entity associations. - Implement your own attribute mappings and support custom data types. - Use Hibernate's Java 8 support and other proprietary features. - Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project.

Artificial Intelligence Problems and Their Solutions PWS Publishing Company

The quadratic binary optimization problem (QUBO) is a versatile combinatorial optimization model with a variety of applications and rich theoretical properties. Application areas of the model include finance, cluster analysis, traffic management, machine scheduling, VLSI physical design, physics, quantum computing, engineering, and medicine. In addition, various mathematical optimization models can be reformulated as a QUBO, including the resource constrained assignment problem, set partitioning problem, maximum cut problem, quadratic assignment problem, the bipartite unconstrained binary optimization problem, among others. This book presents a systematic development of theory, algorithms, and applications of QUBO. It offers a comprehensive treatment of QUBO from various viewpoints, including a historical introduction along with an in-depth discussion of applications modelling, complexity and polynomially solvable special cases, exact and heuristic algorithms, analysis of approximation algorithms, metaheuristics, polyhedral structure, probabilistic analysis, persistencies, and related topics. Available software for solving QUBO is also introduced, including public domain, commercial, as well as quantum computing based codes.

[Android Cookbook](#) Pearson UK

1. Accounting Equation, 2. Rules of Debit and Credit, 3. Recording of Business Transactions : Books of Original Entry—Journal, 4. Ledger, 5. Special Purpose (Subsidiary) Books (I) : Cash Book, 6. Special Purpose Subsidiary Books (II), 7. Bank Reconciliation Statement, 8. Trial Balance & Errors, 9. Depreciation, 10. Accounting for Bills of Exchange, 11. Rectification of Errors, 12. Capital and Revenue Expenditures and Receipts, 13. Financial Statements/Final Account (Without Adjustment), 14. Final Accounts (With Adjustment), 15. Accounts from Incomplete Records Or Single Entry

System.

iNetSec 2009 - Open Research Problems in Network Security Peachpit Press

"The world of Raspberry Pi is evolving quickly, with many new interface boards and software libraries becoming available all the time. In this cookbook, prolific hacker and author Simon Monk provides more than 200 practical recipes for running this tiny low-cost computer with Linux, programming it with Python, and hooking up sensors, motors and other hardware—including Arduino. You'll also learn basic principles to help you use new technologies with Raspberry Pi as its ecosystem develops. Python and other code examples from the book are available on GitHub. This cookbook is ideal for programmers and hobbyists familiar with the Pi through resources such as Getting Started with Raspberry Pi (O'Reilly)."

Computer-Based Structure Elucidation from Spectral Data Thoughts on Java

The working group WG 11.4 of IFIP ran an iNetSec conference a few times in the past, sometimes together with IFIP security conference, sometimes as a stand-alone workshop with a program selected from peer-reviewed submissions. When we were elected to chair WG 11.4 we asked ourselves whether the security and also the computer science community at large benefits from this workshop. In particular, as there are many (too many?) security conferences, it has become difficult to keep up with the field. After having talked to many colleagues, far too many to list all of them here, we decided to try a different kind of workshop: one where people would attend to discuss open research topics in our field, as typically only happens during the coffee breaks of ordinary conferences. To enable this we called for abstracts of 2 pages where the authors outline the open problems that they would like to discuss at the workshop, the intent being that the author would be given 15 minutes to present the topic and another 15 minutes for discussion. These abstracts were then read by all members of the Program Committee and ranked by them according to whether they thought this would lead to an interesting talk and discussion. We then simply selected the abstracts that got the best rankings. We were happy to see this result in many really interesting talks and discussions in the course of the workshop. Of course, these lively and direct discussions are almost impossible to achieve in a printed text. Still, we asked the authors to distill the essence of these discussions into full papers. The results are in your hands.

Groundwater Hydrology "O'Reilly Media, Inc."

Provides information on fixing a variety of annoyances found in Windows XP, covering such topics as the Windows interface, Windows Explorer, multimedia, email, security, networking, setup, and hardware.

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