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DOJRDZ - SHAMAR GIOVANNA

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 administra-

tors 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

Peer to Peer Computing: The Evolution of a Disruptive Technology takes a holistic approach to the affects P2P Computing has on a number a disciplines. Some of those areas covered within this book include grid computing, web services, bioinformatics, security, finance and economics, collaboration, and legal issues. Unique in its approach, Peer to Peer Computing includes current articles from academics as well as IT practitioners and consultants from around the world. As a result, the book strikes a balance for many readers. Neither too technical or too managerial, Peer to Peer Computing appeals to the needs of both researchers and practitioners who are trying to gain a more thorough understanding of current P2P technologies and their emerging ramifications.

Remarkable puzzlers, graded in difficulty, illustrate elementary and advanced aspects of probability. These problems were selected for originality, general interest, or because they demonstrate valuable techniques. Also includes detailed solutions.

This volume constitutes the refereed proceedings of the First International Conference on HCI in Business, HCIB 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCI International 2014, in Heraklion, Crete, Greece, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences

was carefully reviewed and selected from numerous submissions. The papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. They thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The 76 papers included in this volume deal with the following topics: enterprise systems; social media for business; mobile and ubiquitous commerce; gamification in business; B2B, B2C, C2C e-commerce; supporting collaboration, business and innovation and user experience in shopping and business.

Conquer complex and interesting programming challenges by building robust and concurrent applications with caches, cryptography, and parallel programming. Key Features Understand how to use .NET frameworks like the Task Parallel Library (TPL) and CryptoAPI Develop a containerized application based on microservices architecture Gain insights into memory management techniques in .NET Core Book Description This Learning Path shows you how to create high performing applications and solve programming challenges using a wide range of C# features. You'll begin by learning how to identify the bottlenecks in writing programs, highlight common performance pitfalls, and apply strategies to detect and resolve these issues early. You'll also study the importance of micro-services architecture for building fast applications and implementing resiliency and security in .NET Core. Then, you'll study the importance of defining and testing boundaries, abstracting away third-party code, and working with different types of test double, such as spies, mocks, and fakes. In addition to describing programming trade-offs, this Learning Path will also help you build a useful toolkit of techniques, including value caching, statistical analysis, and geometric algorithms. This Learning Path includes

content from the following Packt products: C# 7 and .NET Core 2.0 High Performance by Ovais Mehboob Ahmed Khan Practical Test-Driven Development using C# 7 by John Callaway, Clayton Hunt The Modern C# Challenge by Rod Stephens What you will learn Measure application performance using BenchmarkDotNet Leverage the Task Parallel Library (TPL) and Parallel Language Integrated Query (PLINQ) library to perform asynchronous operations Modify a legacy application to make it testable Use LINQ and PLINQ to search directories for files matching patterns Find areas of polygons using geometric operations Randomize arrays and lists with extension methods Use cryptographic techniques to encrypt and decrypt strings and files Who this book is for If you want to improve the speed of your code and optimize the performance of your applications, or are simply looking for a practical resource on test driven development, this is the ideal Learning Path for you. Some familiarity with C# and .NET will be beneficial. Learn advanced C# concepts and techniques such as building caches, cryptography, and parallel programming by solving interesting programming challenges Key Features Gain useful insights on advanced C# programming topics and APIs Use locking and cached values to solve parallel problems Take advantage of .NET's cryptographic tools to encrypt and decrypt strings Book Description C# is a multi-paradigm programming language. The Modern C# Challenge covers with aspects of the .NET Framework such as the Task Parallel Library (TPL) and CryptoAPI. It also encourages you to explore important programming trade-offs such as time versus space or simplicity. There may be many ways to solve a problem and there is often no single right way, but some solutions are definitely better than others. This book has combined these solutions to help you solve real-world problems with C#. In addition to describing programming trade-offs, The Modern C# Challenge will help you build a useful toolkit of techniques such as value caching, statistical analysis, and geometric algorithms. By the end of this book, you will have walked through challenges in C# and explored the .NET Framework in order to develop program logic for real-world applications. What you will learn Perform statistical calculations such as finding the standard deviation Find combinations and permutations Search directories for files matching patterns using LINQ and PLINQ Find areas of polygons using geometric operations Randomize arrays and lists with extension methods Explore the filesystem to find duplicate files Simulate complex sys-

tems and implement equality in a class Use cryptographic techniques to encrypt and decrypt strings and files Who this book is for The Modern C# Challenge is for all C# developers of different abilities wanting to solve real-world problems. There are problems for everyone at any level of expertise in C#

Jump in and build working Android apps with the help of more than 200 tested recipes. With this cookbook, you'll find solutions for working with the user interfaces, multitouch gestures, location awareness, web services, and device features such as the phone, camera, and accelerometer. You also get useful steps on packaging your app for the Android Market. Ideal for developers familiar with Java, Android basics, and the Java SE API, this book features recipes contributed by more than three dozen developers from the Android community. Each recipe provides a clear solution and sample code you can use in your project right away. Among numerous topics, this cookbook helps you: Use guidelines for designing a successful Android app Work with UI controls, effective layouts, and graphical elements Learn how to take advantage of Android's rich features in your app Save and retrieve application data in files, SD cards, and embedded databases Access RESTful web services, RSS/Atom feeds, and information from websites Create location-aware services to find locations and landmarks, and situate them on Google Maps and OpenStreetMap Test and troubleshoot individual components and your entire application 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.

Valuable resource for K-12 teachers which provides lesson plans, strategies and clear procedures for utilizing computer networks in the classroom.

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.

Wouldn't it be great if there were accessible answers to our spiritual problems, just like there's a Smartphone app for calculating a tip or getting directions to the dry cleaner? Most of us have heard the phrase "There's an app for that," popularized by the creators

of the iPhone. Well, guess what? God has an app for the common conundrums faced by Christians everywhere. Stressed out? Struggling with prejudice? God has an app for that. Problem with crude language or gossip? Broken-hearted, anxious or depressed? God has an app for that, too! Pastor Dudley Rutherford invites readers to explore the book of James and discover God's user-friendly solutions for their biggest challenges in faith and life.

Volume II of a two-part series, this book features 74 problems from various branches of mathematics. Topics include points and lines, topology, convex polygons, theory of primes, and other subjects. Complete solutions.

Here, the authors introduce readers to solving molecular structure elucidation problems using the expert system ACD/Structure Elucidator. They explain in detail the concepts of the Computer-Assisted Structure Elucidation (CASE) approach and point out the crucial role of understanding the axiomatic nature of the data used to deduce the structure. Aspects covered include the main blocks of the expert system and essential features of the mathematical algorithms used. Graduate and PhD students as well as practicing chemists are provided with a detailed explanation of the various practical approaches depending on available spectral data peculiarities and the complexity of the unknown structure. This is supported by a large number of real-world completed examples, most of which are related to the structure elucidation of natural product molecules containing unusual skeletons. Dedicated software and further supplementary material are available at www.acdlabs.com/TeachingSE.

The culture of contemporary medicine is the object of investigation in this book; the meanings and values implicit in biomedical knowledge and practice and the social processes through which they are produced are examined through the use of specific case studies. The essays provide examples of how various facets of 20th century medicine, including education, research, the creation of medical knowledge, the development and application of technology, and day to day medical practice, are pervaded by a value system characteristic of an industrial-capitalistic view of the world in which the idea that science represents an objective and value free body of knowledge is dominant. The authors of the essays are sociologists and anthropologists (in almost equal numbers); also included are papers by a social historian and by three physicians all of whom have steeped themselves in the social sci-

ences and humanities. This co-operative endeavor, which has necessitated the breaking down of disciplinary barriers to some extent, is perhaps indicative of a larger movement in the social sciences, one in which there is a searching for a middle ground between grand theory and attempts at universal explanations on the one hand, and the context-specific empiricism and relativistic accounts characteristic of many historical and anthropological analyses on the other.

Discover the many features of the LEGO® MINDSTORMS® NXT 2.0 set. The LEGO MINDSTORMS NXT 2.0 Discovery Book is the complete, illustrated, beginner's guide to MINDSTORMS that you've been looking for. The crystal clear instructions in the Discovery Book will show you how to harness the capabilities of the NXT 2.0 set to build and program your own robots. Author and robotics instructor Laurens Valk walks you through the set, showing you how to use its various pieces, and how to use the NXT software to program robots. Interactive tutorials make it easy for you to reach an advanced level of programming as you learn to build robots that move, monitor sensors, and use advanced programming techniques like data wires and variables. You'll build eight increasingly sophisticated robots like the Strider (a six-legged walking creature), the CCC (a climbing vehicle), the Hybrid Brick Sorter (a robot that sorts by color and size), and the Snatcher (an autonomous robotic arm). Numerous building and programming challenges throughout encourage you to think creatively and to apply what you've learned as you develop the skills essential to creating your own robots. Requirements: One LEGO MINDSTORMS NXT 2.0 set (#8547) Features: -A complete introduction to LEGO MINDSTORMS NXT 2.0 -Building and programming instructions for eight innovative robots -50 sample programs and 72 programming challenges (ranging from easy to hard) encourage you to explore newly learned programming techniques -15 building challenges expand on the robot designs and help you develop ideas for new robots Who is this book for? This is a perfect introduction for those new to building and programming with the LEGO MINDSTORMS NXT 2.0 set. The book also includes intriguing robot designs and useful programming tips for more seasoned MINDSTORMS builders.

Ready to make amazing games for the iPhone, iPad, and iPod touch? With Apple's Swift programming language, it's never been easier. This updated cookbook provides detailed recipes for a man-

aging wide range of common iOS game-development issues, ranging from 2D and 3D math to SpriteKit and OpenGL to performance—all revised for Swift. You get simple, direct solutions to common problems found in iOS game programming. Need to figure out how to give objects physical motion, or want a refresher on gaming-related math problems? This book provides sample projects and straightforward answers. All you need to get started is some familiarity with iOS development, Swift, and Objective-C. Design the architecture and code layout of your game Build and customize menus with UIKit Detect and respond to user input Use techniques to play sound effects and music Learn different ways to store information for later use Create 2D graphics with SpriteKit Create 3D graphics with SceneKit Add two-dimensional physics simulation Learn beginning, intermediate, and advanced 3D graphics with OpenGL Create challenges with artificial intelligence Take advantage of game controllers and external displays

This comprehensive book introduces a new methodological approach, the PATH model, which offers a simple, systematic, step-by-step, easy-to-use methodology for applying social psychological theories to tackle a diversity of social issues. It helps and guides students to define a problem, conduct a theory-based analysis, develop an explanatory model, and then set up and follow through a research project. Applying Social Psychology: From Problem to Solution can be used by introductory level students upwards who want to understand how questions are formulated by social psychologists, and how these are followed through to explanation.

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.

Modern optimization approaches have attracted an increasing number of scientists, decision makers, and researchers. As new issues in this field emerge, different optimization methodologies must be developed and implemented. The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering. Featuring coverage on a broad range of topics and perspectives such as hybrid systems, non-cooperative games, and cryptography, this publication is ideally designed for students, researchers, and engineers interested in emerging developments in optimization algorithms.

The author shows typical mistakes made in drawings and paintings and then demonstrates how the best drawing techniques can be combined to produce a complete picture. Features annotations and problem-and-solution pages.

Would you like to learn how to troubleshoot computer problems quickly and with confidence? Are you tired of asking others for help whenever an error message appears? This book features all-new solutions to problems in common computer programs, including Microsoft Word, Excel, email, Internet Explorer, and more. Develop the analytical skills that are in high demand in businesses today with Camm/Cochran/Fry/Ohlmann's best-selling BUSI-

NESS ANALYTICS, 4E. You master the full range of analytics as you strengthen your descriptive, predictive and prescriptive analytic skills. Real examples and memorable visuals illustrate data and results for each topic. Step-by-step instructions guide you through using Microsoft Excel, Tableau, R and JMP Pro software to perform more advanced analytics concepts. Practical, relevant problems at all levels of difficulty help you further apply what you've learned. With this edition you become proficient in topics beyond the traditional quantitative concepts, such as data visualization and data mining, which are increasingly important in today's analytical problem-solving. Trust BUSINESS ANALYTICS, 4E to strengthen your understanding of today's analytic concepts. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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.

Practical Solutions for a Spectrum of Artistic Challenges

InfoWorld is targeted to Senior IT professionals. Content is seg-

mented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

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.

Essential Advanced Physics (EAP) is a series comprising four parts: Classical Mechanics, Classical Electrodynamics, Quantum Mechanics and Statistical Mechanics. Each part consists of two volumes, Lecture notes and Problems with solutions, further supplemented by an additional collection of test problems and solutions available to qualifying university instructors. Written for graduate and advanced undergraduate students, the goal of this series is to provide readers with a knowledge base necessary for professional work in physics, be that theoretical or experimental, fundamental or applied research. From the formal point of view, it satisfies typical PhD basic course requirements at major universities. Selected parts of the series may also be valuable for graduate students and researchers in allied disciplines, including astronomy, chemistry, materials science, and mechanical, electrical, computer and

electronic engineering. The EAP series is focused on the development of problem-solving skills. The following features distinguish it from other graduate-level textbooks: Concise lecture notes (250 pages per semester) Emphasis on simple explanations of the main concepts, ideas and phenomena of physics Sets of exercise problems, with detailed model solutions in separate companion volumes Extensive cross-referencing between the volumes, united by common style and notation Additional sets of test problems, freely available to qualifying faculty This volume, Classical Mechanics: Problems with solutions contains detailed model solutions to the exercise problems formulated in the companion Lecture notes volume. In many cases, the solutions include result discussions that enhance the lecture material. For the reader's convenience, the problem assignments are reproduced in this volume.

Get the UPSC CAPF AC Practice Set 2021. Download the free PDF here and start attempting the problems now! Get free solutions for each problems included in the set!

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Distills key concepts from linear algebra, geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.

"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)."

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 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.

The world has many pressing problems. Thanks to the efforts of

governments, NGOs, and individual activists there is no shortage of ideas for resolving them. However, even if all governments were willing to spend more money on solving the problems, we cannot do it all at once. We have to prioritize; and in order to do this we need a better sense of the costs and benefits of each 'solution'. This book offers a rigorous overview of twenty-three of the world's biggest problems relating to the environment, governance, economics, and health and population. Leading economists provide a short survey of the analysis and sketch out policy solutions for which they provide cost-benefit ratios. A unique feature is the provision of freely downloadable software which allows readers to make their own cost-benefit calculations for spending money to make the world a better place.

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.

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.

This book contains 500 problems covering all of introductory physics, along with clear, step-by-step solutions to each problem. Provides information on PC maintenance and repair, covering such topics as system restore, using tech support, startup noises, a slow PC, finding lost files, Internet connections, changes in Windows Vista, Windows event logs, and computer shutdown.

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 manag-

er, 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 experi-

ence 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.