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Business Environment Century 21 Accounting: Module 1. Accounting cycle, chapters 1-10 A Modular Three-dimensional Finite-difference Ground-water Flow Model Cyclic Modules and the Structure of Rings Programmable Microcontrollers with Applications Multiphysics Modeling Using COMSOL? Unified Protocol for Transdiagnostic Treatment of Emotional Disorders Commutator Theory for Congruence Modular Varieties Creative Projects for Rust Programmers A First Course in Module Theory Century 21 Accounting Designing Hexagonal Architecture with Java Numerical Python Transmit Receive Modules for Radar and Communication Systems PLC Controls with Structured Text (ST), V3 Environmental Science for AP® Acceptance and Commitment Therapy for Borderline Personality Disorder Core Module Study Guide Programming Languages: Concepts and Implementation ARIS Design Platform Title List of Documents Made Publicly Available Modules, Systems, and Applications in Thermoelectrics Modular Neural Networks and Type-2 Fuzzy Systems for Pattern Recognition Statistics for Sport and Exercise Studies The Practitioner Guide to Skills Training for Struggling Kids SystemVerilog For Design Small Business Management Chemistry, Modular Chapters Computing with Maple UNIVAC Programmer's Handbook: The run environment Advanced Modelling with the MATLAB Reservoir Simulation Toolbox A Guide to Modula-2 The MIDI Manual Construction Management Ethical Hacking Ri Im Auditing The Apache Modules Book Beginning AngularJS Drupal 6 Attachment Views A Primer of Algebraic D-Modules

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Powerful, flexible, easy to use-small wonder that the use of MAPLE® continues to increase, particularly since the latest releases of MAPLE. The built-in nature of its numerical and graphical facilities gives MAPLE a distinct advantage over traditional programming languages, yet to date, no textbook has used that advantage to introduce programming concepts. Moreover, few books based on MAPLE's latest versions even exist. Computing with MAPLE presents general programming principles using MAPLE as a concrete example of a programming language. The author first addresses the basic MAPLE functions accessible for interactive use then moves to actual programming, discussing all of the programming facilities that MAPLE provides, including control structures, data types, graphics, spreadsheets, text processing, and object oriented programming. Reflecting MAPLE's primary function as a computational tool, the book's emphasis is on mathematical examples, and it includes a full chapter devoted to algebraic programming. Classroom tested since 1995, the material in Computing with MAPLE is particularly appropriate for an intermediate-level introductory course in programming for both mathematics and computing students. It includes numerous exercises and test questions, with MAPLE worksheets, contact information, and supplementary material available on the Internet. A hands-on guide to hacking computer systems from the ground up, from capturing traffic to crafting sneaky, successful trojans. A crash course in modern hacking techniques, Ethical Hacking is already being used to prepare the next generation of offensive security experts. In its many hands-on labs, you'll explore crucial skills for any aspiring penetration tester, security researcher, or malware analyst. You'll begin with the basics: capturing a victim's network traffic with an ARP spoofing attack and then viewing it in Wireshark. From there, you'll deploy reverse shells that let you remotely run commands on a

victim's computer, encrypt files by writing your own ransomware in Python, and fake emails like the ones used in phishing attacks. In advanced chapters, you'll learn how to fuzz for new vulnerabilities, craft trojans and rootkits, exploit websites with SQL injection, and escalate your privileges to extract credentials, which you'll use to traverse a private network. You'll work with a wide range of professional penetration testing tools—and learn to write your own tools in Python—as you practice tasks like: Deploying the Metasploit framework's reverse shells and embedding them in innocent-seeming files Capturing passwords in a corporate Windows network using Mimikatz Scanning (almost) every device on the internet to find potential victims Installing Linux rootkits that modify a victim's operating system Performing advanced Cross-Site Scripting (XSS) attacks that execute sophisticated JavaScript payloads Along the way, you'll gain a foundation in the relevant computing technologies. Discover how advanced fuzzers work behind the scenes, learn how internet traffic gets encrypted, explore the inner mechanisms of nation-state malware like Drovorub, and much more. Developed with feedback from cybersecurity students, Ethical Hacking addresses contemporary issues in the field not often covered in other books and will prepare you for a career in penetration testing. Most importantly, you'll be able to think like an ethical hacker?: someone who can carefully analyze systems and creatively gain access to them. A practical guide to understanding the latest features of the Rust programming language, useful libraries, and frameworks that will help you design and develop interesting projects Key Features Work through projects that will help you build high-performance applications with Rust Delve into concepts such as error handling, memory management, concurrency, generics, and macros with Rust Improve business productivity by choosing the right libraries and frameworks for your applications Book Description Rust is a community-built language that solves pain points present in many other languages, thus improving performance and safety. In this book, you will explore the latest features of Rust by building robust applications across different domains and platforms. The book gets you up and running with high-quality open source libraries and frameworks available in the Rust ecosystem that can help you to develop efficient applications with Rust. You'll learn how to build projects in

domains such as data access, RESTful web services, web applications, 2D games for web and desktop, interpreters and compilers, emulators, and Linux Kernel modules. For each of these application types, you'll use frameworks such as Actix, Tera, Yew, Quicksilver, ggez, and nom. This book will not only help you to build on your knowledge of Rust but also help you to choose an appropriate framework for building your project. By the end of this Rust book, you will have learned how to build fast and safe applications with Rust and have the real-world experience you need to advance in your career. What you will learn

- Access TOML, JSON, and XML files and SQLite, PostgreSQL, and Redis databases
- Develop a RESTful web service using JSON payloads
- Create a web application using HTML templates and JavaScript and a frontend web application or web game using WebAssembly
- Build desktop 2D games
- Develop an interpreter and a compiler for a programming language
- Create a machine language emulator
- Extend the Linux Kernel with loadable modules

Who this book is for This Rust programming book is for developers who want to get hands-on experience with implementing their knowledge of Rust programming, and are looking for expert advice on which libraries and frameworks they can adopt to develop software that typically uses the Rust language.

Emerging conceptualizations of major emotional disorders emphasize their commonalities rather than their differences, including considerable overlap in disorder phenomenology, a common set of vulnerabilities to development of emotional disorders, and generalization of treatment response across disorders. Current research lends support for a unified transdiagnostic approach to treatment of these disorders that considers these commonalities and is applicable to a range of emotional disorders.

Unified Protocol for Transdiagnostic Treatment of Emotional Disorders, part of the *Treatments That Work* series of therapist manuals and patient workbooks, is a radical departure from disorder-specific treatments of various emotional disorders, and is designed to be applicable to all anxiety and unipolar mood disorders, as well as other disorders with strong emotional components, such as many somatoform and dissociative disorders. The Unified Protocol (UP) capitalizes on the contributions made by cognitive-behavioral theorists by distilling and incorporating the common principles of CBT present in all evidenced based protocols for specific emotional disorders,

as well as drawing on the field of emotion science for insights into deficits in emotion regulation. The UP contains seven modules and focuses on four core strategies: becoming mindfully aware of emotional experience; reappraising rigid emotion laden attributions; identifying and preventing behavioral and emotional avoidance; and facilitating exposure to both interoceptive and situational cues associated with emotional experiences. Unified Protocol for Transdiagnostic Treatment of Emotional Disorders will be an essential resource for all therapists and psychiatrists who implement CBT strategies, as well as any clinician treating anxiety and depressive disorders. This book is an introduction to module theory for the reader who knows something about linear algebra and ring theory. Its main aim is the derivation of the structure theory of modules over Euclidean domains. This theory is applied to obtain the structure of abelian groups and the rational canonical and Jordan normal forms of matrices. The basic facts about rings and modules are given in full generality, so that some further topics can be discussed, including projective modules and the connection between modules and representations of groups. The book is intended to serve as supplementary reading for the third or fourth year undergraduate who is taking a course in module theory. The further topics point the way to some projects that might be attempted in conjunction with a taught course. Contents: Rings and Ideals Euclidean Domains Modules and Submodules Homomorphisms Free Modules Quotient Modules and Cyclic Modules Direct Sums of Modules Torsion and the Primary Decomposition Presentations Diagonalizing and Inverting Matrices Fitting Ideals The Decomposition of Modules Normal Forms for Matrices Projective Modules Readership: Final year undergraduates and new graduate students in pure mathematics. Keywords: Module; Commutative Ring; Euclidean Domain; Fitting Ideal; Matrix Diagonalization; Invariant Factor; Elementary Divisor; Rational Canonical Form; Jordan Normal Form Following on from Rob Davis' successful introductory book, ARIS Design Platform: Getting Started with BPM, Rob now covers in detail some of the more advanced concepts of using ARIS Business Architect. This is a practical 'how-to' guide and contains tips, techniques and short cuts gained from practical experience and explains clearly how to use ARIS and why ARIS is a powerful tool for process modeling. Advanced concepts such as the following are presented in

this reader-friendly and concise guide: - Matrix editor, - Find and query, - Model generation, - Method filters and method changes, - Templates and fonts, - Reports and semantic checks, - Macros, - Transformations, - Database administration, - User management. This easy-to-follow advanced text is a must have guide and reference for all users who want to increase their ARIS skills, and for those who need to undertake advanced model and database management. This book gives an introduction to the programming language Structured Text (ST) which is used in Programmable Logic Controllers (PLC). The book can be used for all types of PLC brands including Siemens Structured Control Language (SCL) and Programmable Automation Controllers (PAC). This 3rd edition has been updated and expanded with many of the suggestions and questions that readers and students have come up with, including the desire for many more illustrations and program examples.

CONTENTS: - Background, benefits and challenges of ST programming - Syntax, data types, best practice and basic ST programming - IF-THEN-ELSE, CASE, FOR, CTU, TON, STRUCT, ENUM, ARRAY, STRING - Guide for best practice naming, troubleshooting, test and program structure - Sequencer and code split-up into functions and function blocks - FIFO, RND, sorting, scaling, toggle, simulation signals and digital filter - Tank controls, conveyor belts, adaptive pump algorithm and robot control - PLC program structure for pumping stations, 3D car park and car wash - Examples: From Ladder Diagram to ST programming

The book contains more than 150 PLC code examples with a focus on learning how to write robust, readable, and structured code. The book systematically describes basic programming, including advice and practical examples based on the author's extensive industrial experience. The author is Bachelor of Science in Electrical Engineering (B.Sc.E.E.) and has 25 years' experience in specification, development, programming and supplying complex control solutions and supervision systems. The author is Assistant Professor and teaches PLC programming at Dania Academy, a higher education institution in Randers, Denmark.

MASTER THE MSP430 MICROCONTROLLER AND DEVELOPMENT PLATFORM Expand your electronics design skills to include the MSP430 family of ultra-low-power microprocessors with help from this practical guide.

Programmable Microcontrollers with Applications:

MSP430 LaunchPad with CCS and Grace thoroughly explains each concept and provides illustrated examples and projects. Find out how to configure the MSP430, efficiently program custom functions, process analog and digital signals, and interface with external components. Sample code and reference information are available on the companion website. **COVERAGE**

INCLUDES: * Digital circuit and microcontroller fundamentals * MSP430 architecture and CCS development environment * LaunchPad platform and Grace configuration tool * C and Assembly language programming and debugging * Interrupts, digital I/O, and D/A and A/D converters * Data storage and coding practices for flash memory * Oscillators, clocks, low-power modes, and timers * Digital and analog communication ports and protocols * Schematics and assembly instructions for 12 projects

Presents advanced reservoir simulation methods used in the widely-used MRST open-source software for researchers, professionals, students. Motivate your BPD clients with values-based treatment! This 16-week ACT protocol will help you get started today. As you know, clients with borderline personality disorder (BPD) and emotion dysregulation often struggle with negative beliefs about themselves—beliefs that can lead to feelings of shame, problems with personal relationships, and dangerous behaviors. And while dialectical behavior therapy (DBT) is the standard treatment for BPD, more and more, acceptance and commitment therapy (ACT) has shown promising results when treating BPD clients by helping them focus on their core values and forgiveness. Acceptance and Commitment Therapy for Borderline Personality Disorder provides a comprehensive program for delivering ACT to clients with BPD. Using the session-by-session, 16-week protocol in this professional guide, you can help clients work through the main driver behind BPD—experiential avoidance—and gain the psychological flexibility needed to balance their emotions and begin healing. You can use this protocol on its own, or in conjunction with treatment. With this guide, you'll learn to target the fundamental causes of BPD for better treatment outcomes and happier, healthier clients. The theory of D-modules is a rich area of study combining ideas from algebra and differential equations, and it has significant applications to diverse areas such as singularity theory and representation theory. This book introduces D-modules and their applications avoiding all

unnecessary over-sophistication. It is aimed at beginning graduate students and the approach taken is algebraic, concentrating on the role of the Weyl algebra. Very few prerequisites are assumed, and the book is virtually self-contained. Exercises are included at the end of each chapter and the reader is given ample references to the more advanced literature. This is an excellent introduction to D-modules for all who are new to this area.

Numerical Python by Robert Johansson shows you how to leverage the numerical and mathematical modules in Python and its Standard Library as well as popular open source numerical Python packages like NumPy, FiPy, matplotlib and more to numerically compute solutions and mathematically model applications in a number of areas like big data, cloud computing, financial engineering, business management and more. After reading and using this book, you'll get some takeaway case study examples of applications that can be found in areas like business management, big data/cloud computing, financial engineering (i.e., options trading investment alternatives), and even games. Up until very recently, Python was mostly regarded as just a web scripting language. Well, computational scientists and engineers have recently discovered the flexibility and power of Python to do more. Big data analytics and cloud computing programmers are seeing Python's immense use. Financial engineers are also now employing Python in their work. Python seems to be evolving as a language that can even rival C++, Fortran, and Pascal/Delphi for numerical and mathematical computations.

Addressing frequently encountered emotional, behavioral, and academic difficulties, this essential guide shows how to help parents implement proven skills-building strategies with their kids (ages 5-17). The author draws on over 25 years of research and clinical practice to provide a flexible program for individual families or parent groups. The focus is on teaching kids the skills they need to get their development back on track and teaching parents to cope with and manage challenging behavior. Featuring vignettes and troubleshooting tips, the Practitioner Guide is packed with ideas for engaging clients and tailoring the interventions. In a large-size format for easy photocopying, it contains more than 60 reproducible handouts and forms. The related book Skills Training for Struggling Kids, an invaluable client recommendation, guides parents to implement the strategies and includes all of the handouts and forms

they need. Note: The original Skills Training for Children with Behavior Problems was designed for practitioners and parents to use together. It has now been split into two volumes that serve each audience better with tailored information, more detailed instructions, and resources. Programming Languages: Concepts and Implementation teaches language concepts from two complementary perspectives: implementation and paradigms. It covers the implementation of concepts through the incremental construction of a progressive series of interpreters in Python, and Racket Scheme, for purposes of its combined simplicity and power, and assessing the differences in the resulting languages. SystemVerilog is a rich set of extensions to the IEEE 1364-2001 Verilog Hardware Description Language (Verilog HDL). These extensions address two major aspects of HDL based design. First, modeling very large designs with concise, accurate, and intuitive code. Second, writing high-level test programs to efficiently and effectively verify these large designs. This book, SystemVerilog for Design, addresses the first aspect of the SystemVerilog extensions to Verilog. Important modeling features are presented, such as two-state data types, enumerated types, user-defined types, structures, unions, and interfaces. Emphasis is placed on the proper usage of these enhancements for simulation and synthesis. A companion to this book, SystemVerilog for Verification, covers the second aspect of SystemVerilog. 'The development of the SystemVerilog language makes it easier to produce more efficient and concise descriptions of complex hardware designs. The authors of this book have been involved with the development of the language from the beginning, and who is better to learn from than those involved from day one?' Greg Spirakis, Vice President of Design Technology, Intel Corporation 'As a companion "Do you learn best by example and experimentation? This book is ideal. Have your favorite editor and compiler ready—you'll encounter example code you'll want to try right away. You've picked the right book—this is sure to become the de facto standard guide to writing Apache modules." –Rich Bowen, coauthor, Apache Administrators Handbook, Apache Cookbook, and The Definitive Guide to Apache mod_rewrite "A first-rate guide to getting the most out of Apache as a modular application platform—sure to become a must-read for any Apache programmer, from beginner to experienced professional. It builds up carefully

and meticulously from the absolute basics, while including chapters on everything from the popular Apache DBD Framework to best practices, security, and debugging." –Noirin Plunkett, documentation committer to the Apache httpd project, and member of the ASF conference committee

The Only Comprehensive Guide to Developing Apache 2.x Modules and Applications

Apache is more than the world's most popular Web server—it's also an extraordinarily powerful and extensible development platform. Now, ApacheTutor.org's Nick Kew has written *The Apache Modules Book*, the first start-to-finish, example-rich guide for every developer who wants to make the most of Apache. Kew begins with detailed, accessible introductions to Apache's architecture and API, then illuminates all the techniques you'll need, from request processing through code security. He brings together the best of both worlds: powerful C-based techniques for accomplishing tasks Perl or PHP can't handle, implemented with tools that deliver all the productivity you'd expect from higher-level languages. Utilizing realistic code samples, Kew introduces techniques documented in no other book—and, often, nowhere else at all. Coverage includes Using Apache Portable Runtime (APR) to streamline C development and avoid its pitfalls Leveraging Apache DBD to build applications far more scalable than classic LAMP software Working with the latest Apache 2.x features: filter modules, XML support, and smart proxies Mastering best practices, from thread safety to multi-platform development Utilizing the Apache Authentication Framework Tracing and debugging problems in both Apache and your custom modules

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About the Web Site

ApacheTutor.org contains code examples from the book, all designed for easy

use and integration into existing applications. The MIDI Manual is a complete reference on MIDI, written by a well-respected sound engineer and author. This best-selling guide provides a clear explanation of what MIDI is, how to use electronic instruments and an explanation of sequencers and how to use them. You will learn how to set up an efficient MIDI system and how to get the best out of your music. The MIDI Manual is packed full of useful tips and practical examples on sequencing and mixing techniques. It also covers editors/librarians, working with a score, MIDI in mass media and multimedia and synchronisation. The MIDI spec is set out in detail along with the helpful guidelines on using the implementation chart. Illustrated throughout with helpful photos and screengrabs, this is the most readable and clear book on MIDI available. The previous edition of this title was a bestseller, with 20,000 copies sold in three months. The A+ Core Module is required for all A+ certification candidates, and this book/CD-ROM set includes an exclusive test-preparation program and information resources to help students pass the test.

The use of electronically scanned phased arrays is increasing in systems such as radar, wireless networks, and satellite ground terminals. An important and necessary component for these systems is the transmit receive (T/R) module, which provides the amplification and electronic beam steering that is required for proper function. This new resource presents a comprehensive overview of all design, fabrication, integration, and implementation issues associated with T/R modules for radar and communications. This book provides engineers and researchers with practical designs and 44 examples of analysis, circuits, and components used in T/R modules. It also provides a solid explanation of the theory for how T/R modules operate and how they can be optimized. In addition, this book shows how the latest technical advances in silicon germanium (SiGe) and gallium nitride (GaN) are allowing levels of performance that were previously unachievable. The book concludes with informative chapters on testing, cost considerations, and the future of next generation T/R modules. Comprising two volumes, *Thermoelectrics and Its Energy Harvesting* reviews the dramatic improvements in technology and application of thermoelectric energy with a specific intention to reduce and reuse waste heat and improve novel techniques for the efficient acquisition and use of energy. This volume, *Modules, Systems and Applications* in

Thermoelec This book describes hybrid intelligent systems using type-2 fuzzy logic and modular neural networks for pattern recognition applications. Hybrid intelligent systems combine several intelligent computing paradigms, including fuzzy logic, neural networks, and bio-inspired optimization algorithms, which can be used to produce powerful pattern recognition systems. Type-2 fuzzy logic is an extension of traditional type-1 fuzzy logic that enables managing higher levels of uncertainty in complex real world problems, which are of particular importance in the area of pattern recognition. The book is organized in three main parts, each containing a group of chapters built around a similar subject. The first part consists of chapters with the main theme of theory and design algorithms, which are basically chapters that propose new models and concepts, which are the basis for achieving intelligent pattern recognition. The second part contains chapters with the main theme of using type-2 fuzzy models and modular neural networks with the aim of designing intelligent systems for complex pattern recognition problems, including iris, ear, face and voice recognition. The third part contains chapters with the theme of evolutionary optimization of type-2 fuzzy systems and modular neural networks in the area of intelligent pattern recognition, which includes the application of genetic algorithms for obtaining optimal type-2 fuzzy integration systems and ideal neural network architectures for solving problems in this area. "This hands-on tutorial will teach Drupal developers across the experience spectrum how to use Attachment displays in Views, to make quick progress in functionality and added-value to users! Views are a common way to display a collection of similar content types on one page. This book provides several examples of introducing additional displays onto a web page, and having them interact with each other. The result is pages that provide several types of information and behave more like a desktop application, increasing the value to your site visitors"--Resource description p. Beginning AngularJS is your step-by-step guide to learning the powerful AngularJS JavaScript framework. AngularJS is one of the most respected and innovative frameworks for building properly structured, easy-to-develop web applications. This book will teach you the absolute essentials, from downloading and installing AngularJS, to using modules, controllers, expressions, filters, and directives. Unlike many other

books, you don't need experience with AngularJS or deep JavaScript knowledge to get started here. This book will begin by teaching you the JavaScript you need to know, and then you'll get into the basics of AngularJS. You'll learn powerful AngularJS techniques through clear instructions. With what you learn you'll be able to properly structure your code into manageable modules, understand the MVC design patterns, create expressive and adaptive HTML forms, communicate with servers and use other AngularJS services, use the powerful built-in directives, and learn how to create your own. This might all seem unknown now, but with this book you'll understand it all.

AngularJS is a powerful framework, and one which may require you to think a little differently. This book will help you avoid the common pitfalls and get you up to speed, and building solid AngularJS applications, quickly and painlessly.

Multiphysics Modeling Using COMSOL? rapidly introduces the senior level undergraduate, graduate or professional scientist or engineer to the art and science of computerized modeling for physical systems and devices. It offers a step-by-step modeling methodology through examples that are linked to the Fundamental Laws of Physics through a First Principles Analysis approach. The text explores a breadth of multiphysics models in coordinate systems that range from 1D to 3D and introduces the readers to the numerical analysis modeling techniques employed in the COMSOL? Multiphysics? software. After readers have built and run the examples, they will have a much firmer understanding of the concepts, skills, and benefits acquired from the use of computerized modeling techniques to solve their current technological problems and to explore new areas of application for their particular technological areas of interest. This unique and comprehensive volume provides an up-to-date account of the literature on the subject of determining the structure of rings over which cyclic modules or proper cyclic modules have a finiteness condition or a homological property. The finiteness conditions and homological properties are closely interrelated in the sense that either hypothesis induces the other in some form. This is the first book to bring all of this important material on the subject together. Over the last 25 years or more numerous mathematicians have investigated rings whose factor rings or factor modules have a finiteness condition or a homological property. They made important contributions leading to new directions and questions,

which are listed at the end of each chapter for the benefit of future researchers. There is a wealth of material on the topic which is combined in this book, it contains more than 200 references and is not claimed to be exhaustive. This book will appeal to graduate students, researchers, and professionals in algebra with a knowledge of basic noncommutative ring theory, as well as module theory and homological algebra, equivalent to a one-year graduate course in the theory of rings and modules. Modula-2 is a simple yet powerful programming language that is suitable for a wide variety of applications. It is based on Pascal, a successful programming language that was introduced in 1970 by Niklaus Wirth. During the 1970's Pascal became the most widely taught programming language and it gained acceptance in science and industry. In 1980 Dr. Wirth released the Modula-2 programming language. Modula-2 is an evolution of Pascal. It improves on the successes of Pascal while adding the MODULE - a tool for expressing the relations between the major parts of programs. In addition Modula-2 contains low-level features for systems programming and coroutines for concurrent programming. Programming languages are important because they are used to express ideas. Some programming languages are so limited that certain ideas can't be easily expressed. For example languages that lack floating point arithmetic are inappropriate for scientific computations. Languages such as Basic and Fortran that lack recursion are unsuitable for text processing or systems programming. Sometimes a programming language is useable for a certain application but it is far from ideal. A good example is the difficulty of writing large programs in pure Pascal. Pascal is a poor language for large jobs because it lacks facilities for partitioning a program

viii Preface 6 Now with SAGE Publishing, Timothy S. Hatten's Seventh Edition of Small Business Management equips students with the tools they need to navigate the important financial, legal, marketing, managerial, and operational decisions to help them create and maintain a sustainable competitive advantage in small business. Strong emphasis is placed on application with Experiential Learning Activities and application of technology and social media throughout. New cases, real-world examples, and illuminating features spotlight the diverse, innovative contributions of small business owners to the economy. Whether students dream of launching a new venture, purchasing a franchise, managing

a lifestyle business, or joining the family company, they will learn important best practices for competing in the modern business world. This title is accompanied by a complete teaching and learning package. Contact your SAGE representative to request a demo. Digital Option / Courseware SAGE Vantage is an intuitive digital platform that delivers this text's content and course materials in a learning experience that offers auto-graded assignments and interactive multimedia tools, all carefully designed to ignite student engagement and drive critical thinking. Built with you and your students in mind, it offers simple course set-up and enables students to better prepare for class. Learn more. Assignable Video with Assessment Assignable video (available with SAGE Vantage) is tied to learning objectives and curated exclusively for this text to bring concepts to life. Watch a sample video on advice for new business owners. LMS Cartridge Import this title's instructor resources into your school's learning management system (LMS) and save time. Don't use an LMS? You can still access all of the same online resources for this title via the password-protected Instructor Resource Site. Learn more. This general Chemistry book contains sixteen chapters covering the fundamental principles of chemistry. A practical guide for software architects and Java developers to build cloud-native hexagonal applications using Java and Quarkus to create systems that are easier to refactor, scale, and maintain Key Features Learn techniques to decouple business and technology code in an application Apply hexagonal architecture principles to produce more organized, coherent, and maintainable software Minimize technical debts and tackle complexities derived from multiple teams dealing with the same code base Book Description Hexagonal architecture enhances developers' productivity by decoupling business code from technology code, making the software more change-tolerant, and allowing it to evolve and incorporate new technologies without the need for significant refactoring. By adhering to hexagonal principles, you can structure your software in a way that reduces the effort required to understand and maintain the code. This book starts with an in-depth analysis of hexagonal architecture's building blocks, such as entities, use cases, ports, and adapters. You'll learn how to assemble business code in the Domain hexagon, create features by using ports and use cases in the Application hexagon, and make your software compatible with different

technologies by employing adapters in the Framework hexagon. Moving on, you'll get your hands dirty developing a system based on a real-world scenario applying all the hexagonal architecture's building blocks. By creating a hexagonal system, you'll also understand how you can use Java modules to reinforce dependency inversion and ensure the isolation of each hexagon in the architecture. Finally, you'll get to grips with using Quarkus to turn your hexagonal application into a cloud-native system. By the end of this hexagonal architecture book, you'll be able to bring order and sanity to the development of complex and long-lasting applications. What you will learn

Find out how to assemble business rules algorithms using the specification design pattern
Combine domain-driven design techniques with hexagonal principles to create powerful domain models
Employ adapters to make the system support different protocols such as REST, gRPC, and WebSocket
Create a module and package structure based on hexagonal principles
Use Java modules to enforce dependency inversion and ensure isolation between software components
Implement Quarkus DI to manage the life cycle of input and output ports

Who this book is for
This book is for software architects and Java developers who want to improve code maintainability and enhance productivity with an architecture that allows changes in technology without compromising business logic, which is precisely what hexagonal architecture does. Intermediate knowledge of the Java programming language and familiarity with Jakarta EE will help you to get the most out of this book.

Statistics for Sport and Exercise Studies guides the student through the full research process, from selecting the most appropriate statistical procedure, to analysing data, to the presentation of results, illustrating every key step in the process with clear examples, case-studies and data taken from real sport and exercise settings. Every chapter includes a range of features designed to help the student grasp the underlying concepts and relate each statistical procedure to their own research project, including definitions of key terms, practical exercises, worked examples and clear summaries. The book also offers an in-depth and practical guide to using SPSS in sport and exercise research, the most commonly used data analysis software in sport and exercise departments. In addition, a companion website includes more than 100 downloadable data sets and work sheets for use in or

out of the classroom, full solutions to exercises contained in the book, plus over 1,300 PowerPoint slides for use by tutors and lecturers. Statistics for Sport and Exercise Studies is a complete, user-friendly introduction to the use of statistical tests, techniques and procedures in sport, exercise and related subjects. Visit the companion website at: www.routledge.com/cw/odonoghue

A single mistake, whether made during the bidding process or when executing a construction project, can potentially cost tens of thousands of dollars or more. Of course, the sooner mistakes are caught, the less costly they become. Based on the authors' combined experience working on projects large and small, *Construction Management: Subcontractor Scopes of Work* delineates how project teams can avoid mistakes and run projects more intelligently, effectively, and efficiently. This book's concentration on the nuts and bolts of a construction project, rather than on basic philosophies and concepts, sets it apart. It focuses not on the mechanics of writing subcontract scopes of work, but on why they are written the way they are. Designed by contractors for contractors, this is not a book of simple checklists describing how to address various issues, but a compilation of practical examples and lessons learned to form a knowledge base that can be applied to any project. This knowledge can be used to prepare bid documents that clearly define the roles of the various subcontractors, ensuring the full scope of the project is covered without redundancy or duplication. Provides invaluable training while minimizing lost productivity! Auxiliary multiple choice tests and answer keys are available for download from the CRC website. Using this feature, executives will spend less time preparing and presenting in-house seminars, employees can study when they want and take the tests at opportune times. With this book and downloadable tests, the productivity lost due to training is reduced tremendously. Disagreements over the scope of work required of a general contractor and/or trade subcontractors that ultimately end in construction disputes plague the construction industry. This book elucidates problematic aspects of construction projects while also providing insight into the different perspectives of the various project team members. It delivers helpful information that prevents gaps in subcontract coverage and scope disagreements and reduces potential construction disputes. Written specifically for the AP® Environmental Science course, Friedland and Relyea

Environmental Science for AP® Second Edition, is designed to help you realize success on the AP® Environmental Science Exam and in your course by providing the built-in support you want and need. In the new edition, each chapter is broken into short, manageable modules to help students learn at an ideal pace. Do the Math boxes review quantitative skills and offer you a chance to practice the math you need to know to succeed. Module AP® Review questions, Unit AP® Practice Exams, and a full length cumulative AP® Practice test offer unparalleled, integrated support to prepare you for the real AP® Environmental Science exam in May. The new edition also features a breakthrough in digital-based learning--an edaptex, powered by Copia Class.

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