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Advanced R Hadley Wickham 2015-09-15 An Essential Reference for Intermediate and Advanced R Programmers Advanced R presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing programmers what's special about R. Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

Tribal Business Structure Handbook Karen J. Atkinson 2009 A comprehensive resource on the formation of tribal business entities. Hailed in Indian Country Today as offering "one-stop knowledge on business structuring," the Handbook reviews each type of tribal business entity from the perspective of sovereign immunity and legal liability, corporate formation and governance, federal tax consequences and eligibility for special financing. Covers governmental entities and common forms of business structures.

Microcontroller Systems Engineering Bert van Dam 2009 This book is about a state of the art tool, Flowcode(r), and how you can use Flowcode to develop microcontroller applications. The book starts very simply with a tutorial project and step-by-step instructions. As you go along the projects increase in difficulty and the new concepts are explained. Each project has a clear description of both hardware and software with pictures and diagrams, which explain not just how things are done but also why. All sources are available for free download. Since Flowcode is a high level language the intricacies of microcontroller programming are hidden from view. For that reason it doesn't make much difference whether the program is meant for a PIC, AVR or ARM microcontroller. On a high level the programs for these microcontrollers, although vastly different in internal structure, are identical. For that reason this book is on microcontroller application design in general, not just for one type of microcontroller. If you don't own the microcontroller described in a

project you can usually convert it to another microcontroller quite easily. E-blocks(r) will be used as hardware for the projects in this book. This way the hardware can be put together quickly and reliably. Fully tested units simply connect together using connectors or short flat ribbon cables to form completed projects. This book covers 45 exciting and fun projects for beginners and experts such as: timer; secret doorbell; cell phone remote control; youth deterrent; GPS tracking; pulse width modulated motor control; persistence of vision; sound activated switch; CAN bus; Internet webserver and much more. You can use it as a projects book, and build the projects for your own use. Or you can use it as a study guide to learn more about microcontroller systems engineering and the PIC, AVR and ARM microcontrollers.

Microcontrollers Julio Sanchez 2018-10-08 Focusing on the line of high-performance microcontrollers offered by Microchip, *Microcontrollers: High-Performance Systems and Programming* discusses the practical factors that make the high-performance PIC series a better choice than their mid-range predecessors for most systems. However, one consideration in favor of the mid-range devices is the abundance of published application circuits and code samples. This book fills that gap. Possibility of programming high-performance microcontrollers in a high-level language (C language) Source code compatibility with PIC16 microcontrollers, which facilitates code migration from mid-range to PIC18 devices Pin compatibility of some PIC18 devices with their PIC16 predecessors, making the reuse of PIC16 controllers in circuits originally designed for mid-range hardware possible Designed to be functional and hands-on, this book provides sample circuits with their corresponding programs. It clearly depicts and labels the circuits, in a way that is easy to follow and reuse. Each circuit includes a parts list of the resources and components required for its fabrication. The book matches sample programs to the individual circuits, discusses general programming techniques, and includes appendices with useful information.

Reversing Eldad Eilam 2011-12-12 Beginning with a basic primer on reverse engineering—including computer internals, operating systems, and assembly language—and then discussing the various applications of reverse engineering, this book provides readers with practical, in-depth techniques for software reverse engineering. The book is broken into two parts, the first deals with security-related reverse engineering and the second explores the more practical aspects of reverse engineering. In addition, the author explains how to reverse engineer a third-party software library to improve interfacing and how to reverse engineer a competitor's software to build a better product. * The first popular book to show how software reverse engineering can help defend against security threats, speed up development, and unlock the secrets of competitive products * Helps developers plug security holes by demonstrating how hackers exploit reverse engineering techniques to crack copy-protection schemes and identify software targets for viruses and other malware * Offers a primer on advanced reverse-engineering, delving into "disassembly"-code-level reverse engineering—and explaining how to decipher assembly language

The Finite Volume Method in Computational Fluid Dynamics F. Moukalled 2015-08-13 This textbook explores both the theoretical foundation of the Finite Volume Method (FVM) and its applications in Computational Fluid Dynamics (CFD). Readers will discover a thorough explanation of the FVM numerics and algorithms used for the simulation of incompressible and compressible fluid flows, along with a detailed examination of the components needed for the development of a collocated unstructured pressure-based CFD solver. Two particular CFD codes are

explored. The first is uFVM, a three-dimensional unstructured pressure-based finite volume academic CFD code, implemented within Matlab. The second is OpenFOAM®, an open source framework used in the development of a range of CFD programs for the simulation of industrial scale flow problems. With over 220 figures, numerous examples and more than one hundred exercise on FVM numerics, programming, and applications, this textbook is suitable for use in an introductory course on the FVM, in an advanced course on numerics, and as a reference for CFD programmers and researchers.

Environmental Systems Analysis with MATLAB® Stefano Marsili-Libelli 2018-09-03
Explore the inner workings of environmental processes using a mathematical approach. Environmental Systems Analysis with MATLAB® combines environmental science concepts and system theory with numerical techniques to provide a better understanding of how our environment works. The book focuses on building mathematical models of environmental systems, and using these models to analyze their behaviors. Designed with the environmental professional in mind, it offers a practical introduction to developing the skills required for managing environmental modeling and data handling. The book follows a logical sequence from the basic steps of model building and data analysis to implementing these concepts into working computer codes, and then on to assessing their results. It describes data processing (rarely considered in environmental analysis); outlines the tools needed to successfully analyze data and develop models, and moves on to real-world problems. The author illustrates in the first four chapters the methodological aspects of environmental systems analysis, and in subsequent chapters applies them to specific environmental concerns. The accompanying software bundle is freely downloadable from the book web site. It follows the chapters sequence and provides a hands-on experience, allowing the reader to reproduce the figures in the text and experiment by varying the problem setting. A basic MATLAB literacy is required to get the most out of the software. Ideal for coursework and self-study, this offering:
Deals with the basic concepts of environmental modeling and identification, both from the mechanistic and the data-driven viewpoint
Provides a unifying methodological approach to deal with specific aspects of environmental modeling: population dynamics, flow systems, and environmental microbiology
Assesses the similarities and the differences of microbial processes in natural and man-made environments
Analyzes several aquatic ecosystems' case studies
Presents an application of an extended Streeter & Phelps (S&P) model
Describes an ecological method to estimate the bioavailable nutrients in natural waters
Considers a lagoon ecosystem from several viewpoints, including modeling and management, and more

Flow Mihaly Csikszentmihalyi 2009-10-13 "Csikszentmihalyi arrives at an insight that many of us can intuitively grasp, despite our insistent (and culturally supported) denial of this truth. That is, it is not what happens to us that determines our happiness, but the manner in which we make sense of that reality. . . . The manner in which Csikszentmihalyi integrates research on consciousness, personal psychology and spirituality is illuminating." -Los Angeles Times Book Review
The bestselling classic that holds the key to unlocking meaning, creativity, peak performance, and true happiness. Legendary psychologist Mihaly Csikszentmihalyi's famous investigations of "optimal experience" have revealed that what makes an experience genuinely satisfying is a state of consciousness called flow. During flow, people typically experience deep enjoyment, creativity, and a total involvement with life. In this new edition of his groundbreaking classic work, Csikszentmihalyi ("the leading researcher into 'flow states'" -Newsweek) demonstrates the ways this positive

state can be controlled, not just left to chance. *Flow: The Psychology of Optimal Experience* teaches how, by ordering the information that enters our consciousness, we can discover true happiness, unlock our potential, and greatly improve the quality of our lives.

MODFLOW Ground-water Model S. A. Leake 2007 A new computer program was developed to simulate vertical compaction in models of regional ground-water flow. The program simulates ground-water storage changes and compaction in discontinuous interbeds or in extensive confining units, accounting for stress-dependent changes in storage properties. The new program is a package for MODFLOW, the U.S. Geological Survey modular finite-difference ground-water flow model. Several features of the program make it useful for application in shallow, unconfined flow systems. Geostatic stress can be treated as a function of water-table elevation, and compaction is a function of computed changes in effective stress at the bottom of a model layer. Thickness of compressible sediments in an unconfined model layer can vary in proportion to saturated thickness.

Advanced PIC Microcontroller Projects in C Dogan Ibrahim 2008-10-14 Teaches you things you need to know about the 16-bit PIC 24 chip. This title teaches you how to side-step common obstacles, solve real-world design problems efficiently, and optimize code for the PIC 24 features.

PIC Microcontroller and Embedded Systems Muhammad Ali Mazidi 2016-08-16 The PIC microcontroller from Microchip is one of the most widely used 8-bit microcontrollers in the world. In this book, the authors use a step-by-step and systematic approach to show the programming of the PIC18 chip. Examples in both Assembly language and C show how to program many of the PIC18 features such as timers, serial communication, ADC, and SPI.

Computer Vision Metrics Scott Krig 2014-06-14 *Computer Vision Metrics* provides an extensive survey and analysis of over 100 current and historical feature description and machine vision methods, with a detailed taxonomy for local, regional and global features. This book provides necessary background to develop intuition about why interest point detectors and feature descriptors actually work, how they are designed, with observations about tuning the methods for achieving robustness and invariance targets for specific applications. The survey is broader than it is deep, with over 540 references provided to dig deeper. The taxonomy includes search methods, spectra components, descriptor representation, shape, distance functions, accuracy, efficiency, robustness and invariance attributes, and more. Rather than providing 'how-to' source code examples and shortcuts, this book provides a counterpoint discussion to the many fine opencv community source code resources available for hands-on practitioners.

Power System Optimization Modeling in GAMS Alireza Soroudi 2017-08-29 This unique book describes how the General Algebraic Modeling System (GAMS) can be used to solve various power system operation and planning optimization problems. This book is the first of its kind to provide readers with a comprehensive reference that includes the solution codes for basic/advanced power system optimization problems in GAMS, a computationally efficient tool for analyzing optimization problems in power and energy systems. The book covers theoretical background as well as the application examples and test case studies. It is a suitable reference for dedicated and general audiences including power system professionals as well as researchers and developers from

the energy sector and electrical power engineering community and will be helpful to undergraduate and graduate students.

Making Embedded Systems Elecia White 2011-10-25 Interested in developing embedded systems? Since they don't tolerate inefficiency, these systems require a disciplined approach to programming. This easy-to-read guide helps you cultivate a host of good development practices, based on classic software design patterns and new patterns unique to embedded programming. Learn how to build system architecture for processors, not operating systems, and discover specific techniques for dealing with hardware difficulties and manufacturing requirements. Written by an expert who's created embedded systems ranging from urban surveillance and DNA scanners to children's toys, this book is ideal for intermediate and experienced programmers, no matter what platform you use. Optimize your system to reduce cost and increase performance Develop an architecture that makes your software robust in resource-constrained environments Explore sensors, motors, and other I/O devices Do more with less: reduce RAM consumption, code space, processor cycles, and power consumption Learn how to update embedded code directly in the processor Discover how to implement complex mathematics on small processors Understand what interviewers look for when you apply for an embedded systems job "Making Embedded Systems is the book for a C programmer who wants to enter the fun (and lucrative) world of embedded systems. It's very well written—entertaining, even—and filled with clear illustrations." —Jack Ganssle, author and embedded system expert.

The Art of Unit Testing Roy Osherove 2013-11-24 Summary The Art of Unit Testing, Second Edition guides you step by step from writing your first simple tests to developing robust test sets that are maintainable, readable, and trustworthy. You'll master the foundational ideas and quickly move to high-value subjects like mocks, stubs, and isolation, including frameworks such as Moq, FakeItEasy, and Typemock Isolator. You'll explore test patterns and organization, working with legacy code, and even "untestable" code. Along the way, you'll learn about integration testing and techniques and tools for testing databases and other technologies. About this Book You know you should be unit testing, so why aren't you doing it? If you're new to unit testing, if you find unit testing tedious, or if you're just not getting enough payoff for the effort you put into it, keep reading. The Art of Unit Testing, Second Edition guides you step by step from writing your first simple unit tests to building complete test sets that are maintainable, readable, and trustworthy. You'll move quickly to more complicated subjects like mocks and stubs, while learning to use isolation (mocking) frameworks like Moq, FakeItEasy, and Typemock Isolator. You'll explore test patterns and organization, refactor code applications, and learn how to test "untestable" code. Along the way, you'll learn about integration testing and techniques for testing with databases. The examples in the book use C#, but will benefit anyone using a statically typed language such as Java or C++. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Create readable, maintainable, trustworthy tests Fakes, stubs, mock objects, and isolation (mocking) frameworks Simple dependency injection techniques Refactoring legacy code About the Author Roy Osherove has been coding for over 15 years, and he consults and trains teams worldwide on the gentle art of unit testing and test-driven development. His blog is at ArtOfUnitTesting.com. Table of Contents PART 1 GETTING STARTED The basics of unit testing A first unit test PART 2 CORE TECHNIQUES Using stubs to break dependencies Interaction testing using mock objects Isolation (mocking) frameworks Digging deeper into isolation frameworks PART 3 THE TEST CODE Test hierarchies and organization The pillars

of good unit tests PART 4 DESIGN AND PROCESS Integrating unit testing into the organization Working with legacy code Design and testability

Microcontroller Programming Julio Sanchez 2018-10-03 From cell phones and television remote controls to automobile engines and spacecraft, microcontrollers are everywhere. Programming these prolific devices is a much more involved and integrated task than it is for general-purpose microprocessors; microcontroller programmers must be fluent in application development, systems programming, and I/O operation as well as memory management and system timing. Using the popular and pervasive mid-range 8-bit Microchip PIC® as an archetype, *Microcontroller Programming* offers a self-contained presentation of the multidisciplinary tools needed to design and implement modern embedded systems and microcontrollers. The authors begin with basic electronics, number systems, and data concepts followed by digital logic, arithmetic, conversions, circuits, and circuit components to build a firm background in the computer science and electronics fundamentals involved in programming microcontrollers. For the remainder of the book, they focus on PIC architecture and programming tools and work systematically through programming various functions, modules, and devices. Helpful appendices supply the full mid-range PIC instruction set as well as additional programming solutions, a guide to resistor color codes, and a concise method for building custom circuit boards. Providing just the right mix of theory and practical guidance, *Microcontroller Programming: The Microchip PIC®* is the ideal tool for any amateur or professional designing and implementing stand-alone systems for a wide variety of applications.

Modern Compiler Design Dick Grune 2012-07-20 "Modern Compiler Design" makes the topic of compiler design more accessible by focusing on principles and techniques of wide application. By carefully distinguishing between the essential (material that has a high chance of being useful) and the incidental (material that will be of benefit only in exceptional cases) much useful information was packed in this comprehensive volume. The student who has finished this book can expect to understand the workings of and add to a language processor for each of the modern paradigms, and be able to read the literature on how to proceed. The first provides a firm basis, the second potential for growth.

Microcontroller Projects in C for the 8051 Dogan Ibrahim 2000-06-19 This book is a thoroughly practical way to explore the 8051 and discover C programming through project work. Through graded projects, Dogan Ibrahim introduces the reader to the fundamentals of microelectronics, the 8051 family, programming in C, and the use of a C compiler. The specific device used for examples is the AT89C2051 - a small, economical chip with re-writable memory, readily available from the major component suppliers. A working knowledge of microcontrollers, and how to program them, is essential for all students of electronics. In this rapidly expanding field many students and professionals at all levels need to get up to speed with practical microcontroller applications. Their rapid fall in price has made microcontrollers the most exciting and accessible new development in electronics for years - rendering them equally popular with engineers, electronics hobbyists and teachers looking for a fresh range of projects. *Microcontroller Projects in C for the 8051* is an ideal resource for self-study as well as providing an interesting, enjoyable and easily mastered alternative to more theoretical textbooks. Practical projects that enable students and practitioners to get up and running straight away with 8051 microcontrollers A hands-on introduction to practical C programming A wealth of

project ideas for students and enthusiasts

PIC Projects for Non-Programmers John Iovine 2011-08-24 John Iovine has created his next masterwork with PIC Projects for Non-Programmers. Engineers and hobbyists new to the PIC who want to create something today will find a valuable resource in this book. By working through the accessible projects in this book, readers will use a symbolic compiler that allows them to create 'code' via flowcharts immediately, getting their projects up and running quickly! The ability to create applications with the PIC from day one makes this a real page turner and a highly satisfying introduction to microcontrollers for both novices and readers who need to build their skills. Gets readers up and running fast with a quick review of basics and then onto ten tried-and-tested projects No languages to learn: Simply drag and drop the icons, plug in the settings and the PIC will respond to the commands Step by step guide to using Flowcode 4

You Lead Minter Dial 2021-01-03 Your biggest asset in leadership is you. How can you expect people to trust and believe in you, if you aren't truthful and don't embrace your whole self at work? There is a need for a new kind of leadership; one that bleeds personality and rings true to employees and customers alike who crave authenticity. You Lead argues that business leaders deliver superior results, communities of engagement both inside and outside of the company and true values-driven success when they are themselves and come across as genuine. Bestselling author, Minter Dial, shows readers how embracing your whole self at work encourages people to also be themselves, seek true fulfilment at work and merge the personal and professional to become true examples of what you stand for. You Lead is a call to arms to leaders to stop pretending to be who they are not, and play on their uniqueness and strengths, to allow people to do the same and develop a culture of authenticity and purpose. With practical advice, real-life stories and a simple framework, this book shows you how you can: - Be yourself, lead by example and merge the professional and personal - Stand for something and allow people to develop true purpose at work - Allow a community to flourish through the right kind of governance model - Radiate your purpose through employees and customers alike for long-term performance

Introductory Techniques for 3-D Computer Vision Emanuele Trucco 1998 This text provides readers with a starting point to understand and investigate the literature of computer vision, listing conferences, journals and Internet sites.

Programming 8-bit PIC Microcontrollers in C Martin P. Bates 2008-08-22 Microcontrollers are present in many new and existing electronic products, and the PIC microcontroller is a leading processor in the embedded applications market. Students and development engineers need to be able to design new products using microcontrollers, and this book explains from first principles how to use the universal development language C to create new PIC based systems, as well as the associated hardware interfacing principles. The book includes many source code listings, circuit schematics and hardware block diagrams. It describes the internal hardware of 8-bit PIC microcontroller, outlines the development systems available to write and test C programs, and shows how to use CCS C to create PIC firmware. In addition, simple interfacing principles are explained, a demonstration program for the PIC mechatronics development board provided and some typical applications outlined. *Focuses on the C programming language which is by far the most popular for

microcontrollers (MCUs) *Features Proteus VSMg the most complete microcontroller simulator on the market, along with CCS PCM C compiler, both are highly compatible with Microchip tools *Extensive downloadable content including fully worked examples

Numerical Heat Transfer and Fluid Flow Suhas Patankar 2018-10-08 This book focuses on heat and mass transfer, fluid flow, chemical reaction, and other related processes that occur in engineering equipment, the natural environment, and living organisms. Using simple algebra and elementary calculus, the author develops numerical methods for predicting these processes mainly based on physical considerations. Through this approach, readers will develop a deeper understanding of the underlying physical aspects of heat transfer and fluid flow as well as improve their ability to analyze and interpret computed results.

Programming PIC Microcontrollers with XC8 Armstrong Subero 2017-12-06 Learn how to use microcontrollers without all the frills and math. This book uses a practical approach to show you how to develop embedded systems with 8 bit PIC microcontrollers using the XC8 compiler. It's your complete guide to understanding modern PIC microcontrollers. Are you tired of copying and pasting code into your embedded projects? Do you want to write your own code from scratch for microcontrollers and understand what your code is doing? Do you want to move beyond the Arduino? Then Programming PIC Microcontrollers with XC8 is for you! Written for those who want more than an Arduino, but less than the more complex microcontrollers on the market, PIC microcontrollers are the next logical step in your journey. You'll also see the advantage that MPLAB X offers by running on Windows, MAC and Linux environments. You don't need to be a command line expert to work with PIC microcontrollers, so you can focus less on setting up your environment and more on your application. What You'll Learn Set up the MPLAB X and XC8 compilers for microcontroller development Use GPIO and PPS Review EUSART and Software UART communications Use the eXtreme Low Power (XLP) options of PIC microcontrollers Explore wireless communications with WiFi and Bluetooth Who This Book Is For Those with some basic electronic device and some electronic equipment and knowledge. This book assumes knowledge of the C programming language and basic knowledge of digital electronics though a basic overview is given for both. A complete newcomer can follow along, but this book is heavy on code, schematics and images and focuses less on the theoretical aspects of using microcontrollers. This book is also targeted to students wanting a practical overview of microcontrollers outside of the classroom.

Python in a Nutshell Alex Martelli 2006-07-14 Demonstrates the programming language's strength as a Web development tool, covering syntax, data types, built-ins, the Python standard module library, and real world examples.

The Emotion Code Dr. Bradley Nelson 2019-05-07 "I believe that the discoveries in this book can change our understanding of how we store emotional experiences and in so doing, change our lives. The Emotion Code has already changed many lives around the world, and it is my hope that millions more will be led to use this simple tool to heal themselves and their loved ones."—Tony Robbins In this newly revised and expanded edition of *The Emotion Code*, renowned holistic physician and lecturer Dr. Bradley Nelson skillfully lays bare the inner workings of the subconscious mind. He reveals how emotionally-charged events from your past can still be haunting you in the form of "trapped emotions"—emotional energies that literally inhabit your body. These trapped emotions can fester in your life and body, creating pain, malfunction, and

eventual disease. They can also extract a heavy mental and emotional toll on you, impacting how you think, the choices that you make, and the level of success and abundance you are able to achieve. Perhaps most damaging of all, trapped emotional energies can gather around your heart, cutting off your ability to give and receive love. The Emotion Code is a powerful and simple way to rid yourself of this unseen baggage. Dr. Nelson's method gives you the tools to identify and release the trapped emotions in your life, eliminating your "emotional baggage," and opening your heart and body to the positive energies of the world. Filled with real-world examples from many years of clinical practice, The Emotion Code is a distinct and authoritative work that has become a classic on self-healing.

Discourse and Affect in Postsocialist Bosnia and Herzegovina Danijela Majstorović 2021-11-12 This book examines the making and breaking of peripheral selves in and from postsocialist Bosnia in an empirically rich self-reflexive account of politico-economic and ideological developments. Through world systems and postcolonial theory, historical and new materialist optics, discursive and affective analytical registers, and various qualitative methodological choices, the author analyzes peripheral subjectivity in connection to global proletarianization, as well as past and present resistance via social and personal movement(s). She refers to past Yugoslav socialist and anticolonial struggles as well as more recent ones, including the social justice and feminist collective, engaging with workers' and women's struggles in postwar Bosnia and the Justice for David movement. Finally, she analyzes the lives of new third-wave Bosnian migrants to Germany post-2015, placing them in juxtaposition with non-European migrants in Bosnian reception centers and exposing labor and race, border struggles and market as new variables for studying selves in this particular context. Writing about "situated knowledge" and "politics of location," the author stresses the importance of strong affective ties within researcher-researched assemblages urging for deeper coalitions and solidarity among various peripheral, power-differentiated communities. This book will be of interest to readers with backgrounds in linguistics, sociology, post-Yugoslav history, cultural studies and anthropology.

Gray Hat Python Justin Seitz 2009-04-15 Python is fast becoming the programming language of choice for hackers, reverse engineers, and software testers because it's easy to write quickly, and it has the low-level support and libraries that make hackers happy. But until now, there has been no real manual on how to use Python for a variety of hacking tasks. You had to dig through forum posts and man pages, endlessly tweaking your own code to get everything working. Not anymore. Gray Hat Python explains the concepts behind hacking tools and techniques like debuggers, trojans, fuzzers, and emulators. But author Justin Seitz goes beyond theory, showing you how to harness existing Python-based security tools—and how to build your own when the pre-built ones won't cut it. You'll learn how to: -Automate tedious reversing and security tasks -Design and program your own debugger -Learn how to fuzz Windows drivers and create powerful fuzzers from scratch -Have fun with code and library injection, soft and hard hooking techniques, and other software trickery -Sniff secure traffic out of an encrypted web browser session -Use PyDBG, Immunity Debugger, Sulley, IDAPython, PyEMU, and more The world's best hackers are using Python to do their handiwork. Shouldn't you?

Mechatronics for Beginners: 21 Projects for PIC Microcontrollers As Imam 2012 This book provides a unique approach to teaching how systems or processes can

be automated without having prior knowledge of any computer programming language. It presents step-by-step practical guidelines on how sensors, actuators, and other electronic components can be interfaced to microcontrollers for building smart systems using the Flowcode graphical programming software. The book is intended for students in vocational and technical colleges or any other person interested in learning how to build mechatronics systems. The book is in two parts, part 1 and part 2. Part 1 begins with an overview of mechatronics evolution in chapter 1, while chapter 2 discusses some electronic basics essential to mechatronics for users with no electronic knowledge. Chapter 3 covers discussion on hardware and software required for implementing the projects in the book. Part 2 of the book contains the twenty-one projects. The book assumes no knowledge of electrical/electronic and programming languages. Emphasis is placed on practical demonstrations for building the projects in the book. Steps for implementing each project are illustrated with graphics obtained from the Flowcode software.

Foundations of Software Testing Dorothy Graham 2008 Your One-Stop Guide To Passing The ISTQB Foundation Level Exam Foundations of Software Testing: Updated edition for ISTQB Certification is your essential guide to software testing and the ISTQB Foundation qualification. Whether you are a student or tester of ISTQB, this book is an essential purchase if you want to benefit from the knowledge and experience of those involved in the writing of the ISTQB Syllabus. This book adopts a practical and hands-on approach, covering the fundamental principles that every system and software tester should know. Each of the six sections of the syllabus is covered by background tests, revision help and sample exam questions. The also contains a glossary, sample full-length examination and information on test certification. The authors are seasoned test-professionals and developers of the ISTQB syllabus itself, so syllabus coverage is thorough and in-depth. This book is designed to help you pass the ISTQB exam and qualify at Foundation Level, and is enhanced with many useful learning aids. ABOUT ISTQB ISTQB is a multi-national body overseeing the development of international qualifications in software testing. In a world of employment mobility and multi-national organizations, having an internationally recognized qualification ensures that there is a common understanding, internationally, of software testing issues.

Learning OpenCV 3 Adrian Kaehler 2016-12-14 "This book provides a working guide to the C++ Open Source Computer Vision Library (OpenCV) version 3.x and gives a general background on the field of computer vision sufficient to help readers use OpenCV effectively."--Preface.

Advances in Rock-Support and Geotechnical Engineering Shuren Wang 2016-08-17 Advances in Rock-Support and Geotechnical Engineering brings together the latest research results regarding the theory of rock mechanics, its analytical methods and innovative technologies, and its applications in practical engineering. This book is divided into six sections, rock tests, rock bolting, grouted anchor, tunneling engineering, slope engineering, and mining engineering. Coverage includes fracture hinged arching process and instability characteristics of rock plates, failure modes of rock bolting, scale effects, and loading transfer mechanism of the grouted anchor. Also covered are recent innovations and applications in tunneling engineering, slope engineering, and mining engineering. This book provides innovative, practical, and rich content that can be used as a valuable reference for researchers undertaking tunneling engineering, slope engineering, mining engineering, and rock mechanics, and for onsite technical personnel and teachers and students studying the topics in

related universities. Enriches new theories on failure modes of rock plates, rock bolting mechanisms, and anchor loading transfer Develops new methods of evaluating the stability of slope engineering and the roof stability of the mined-out areas Includes fracture hinged arching process and instability characteristics of rock plates, failure modes of rock bolting, scale effects, and loading transfer mechanism of the grouted anchor

International Merchandise Trade Statistics United Nations Department of Economic and Social Affairs 2017-02-22 The International Merchandise Trade Statistics: Compilers Manual, Revision 1 (IMTS 2010-CM) supports statisticians in countries in the implementation of the new and updated recommendations contained in International Merchandise Trade Statistics: Concepts and Definitions, Revision 3 (IMTS 2010). The Manual contains further and more detailed explanation of certain recommendations and provides practical guidance for trade statistics compilers by describing good or best practices applicable under different circumstances. However, the Manual is also a very valuable source of information for all users and analysts of trade statistics as it highlights critical issues of trade statistics and its compilation and describes existing country practises in numerous examples. Readers will gain an inside look in trade statistics, allowing an in depth understanding of issues and practises.

Health Systems Science Education: Development and Implementation (The AMA MedEd Innovation Series) 1st Edition - E-Book Rosalyn Maben-Feaster 2022-09-09 Now taught in a majority of medical schols nationwide, health systems science (HSS) prepares learners for the health systems of the future—an essential topic in modern health care. Health Systems Science Education, part of the American Medical Association's MedEd Innovation Series, is a first-of-its-kind, instructor-focused field book that that equips educators to not just teach health systems science, but to know how to integrate and implement HSS comprehensively and effectively across the curriculum. This change management-oriented volume . . . Provides practical approaches and addresses common challenges to successfully implementing health systems science. Considers both clinical and classroom settings and discusses best practices, successful cases, and common frameworks implemented by early adopters of the third pillar of medical education. Contains clear lists of competencies. Covers both medical school (UME) and residency program (GME) implementation strategies. Offers a framework for creating an environment of continuous improvement—from pre-implementation to sustainability. One of the American Medical Association's Change MedEd initiatives and innovations, written and edited by members of the Accelerating Change in Medical Education Consortium - a unique, innovative collaborative that allows for the sharing and dissemination of groundbreaking ideas and projects.

Handbook of Atomization and Sprays Nasser Ashgriz 2011-02-18 Atomization and sprays are used in a wide range of industries: mechanical, chemical, aerospace, and civil engineering; material science and metallurgy; food; pharmaceutical, forestry, environmental protection; medicine; agriculture; meteorology and others. Some specific applications are spray combustion in furnaces, gas turbines and rockets, spray drying and cooling, air conditioning, powdered metallurgy, spray painting and coating, inhalation therapy, and many others. The Handbook of Atomization and Sprays will bring together the fundamental and applied material from all fields into one comprehensive source. Subject areas included in the reference are droplets, theoretical models and numerical simulations, phase Doppler particle analysis, applications, devices and more.

Optimizing Company Cash Michele Allman-Ward 2018-02-21 Optimizing Company Cash provides a comprehensive guide to all elements of cash management in a business including: Inflows Outflows Cash conversion cycles Short-term borrowing and investing International business How to structure a corporate treasury function In over 200 pages, the Guide explains how CPAs and financial managers can manage their company's short-term resources to sustain ongoing activities, mobilize funds and optimize liquidity. It also provides diagrams of work flows, step-by-step checklists, templates, and treasury tips for CPAs and finance managers who are responsible for making the most of working capital and short-term resources.

International Fuel Gas Code Turbo Tabs 2018 International Code Council 2017-09-14 Customize your 2018 INTERNATIONAL FUEL GAS CODE Soft Cover book with updated, easy-to-use TURBO TABS. These handy tabs will highlight the most frequently referenced sections of the latest version of the IFGC. They have been strategically designed by industry experts so that users can quickly and efficiently access the information they need, when they need it.

Breaking the Wealth Code John Hrimnak 2008-08-01

Job Ready Java Alan Galloway 2021-03-03 Prepare yourself to take on new and exciting Java programming challenges with this one-stop resource Job Ready Java delivers a comprehensive and foundational approach to Java that is immediately applicable to real-world environments. Based on the highly regarded and effective Software Guild Java Bootcamp: Object Oriented Programming course, this book teaches you the basic and advanced Java concepts you will need at any entry-level Java position. With the "Pulling It Together" sections, you'll combine and integrate the concepts and lessons taught by the book, while also benefiting from: A thorough introduction to getting set up with Java, including how to write, compile, and run Java programs with or without a Java IDE Practical discussions of the basics of the Java language, including syntax, program flow, and code organization A walk through the fundamentals of Object-Oriented Programming including Classes, Objects, Interfaces, and Inheritance, and how to leverage OOP in Java to create elegant code. Explorations of intermediate and advanced Java concepts, including Maven , unit testing, Lambdas, Streams, and the Spring Framework Perfect for Java novices seeking to make a career transition, Job Ready Java will also earn a place in the libraries of Java developers wanting to brush up on the fundamentals of their craft with an accessible and up-to-date resource.

Practical Python AI Projects Serge Kruk 2018-02-26 Discover the art and science of solving artificial intelligence problems with Python using optimization modeling. This book covers the practical creation and analysis of mathematical algebraic models such as linear continuous models, non-obviously linear continuous models, and pure linear integer models. Rather than focus on theory, Practical Python AI Projects, the product of the author's decades of industry teaching and consulting, stresses the model creation aspect; contrasting alternate approaches and practical variations. Each model is explained thoroughly and written to be executed. The source code from all examples in the book is available, written in Python using Google OR-Tools. It also includes a random problem generator, useful for industry application or study. What You Will Learn Build basic Python-based artificial intelligence (AI) applications Work with mathematical optimization methods and the Google OR-Tools (Optimization Tools) suite Create several types of projects using Python and Google OR-Tools Who This Book Is For Developers and students who already have

prior experience in Python coding. Some prior mathematical experience or comfort level may be helpful as well.