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Forewords by
Gregor Heltge and James Strachan

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Real World Instrumentation with Python John M. Hughes, 2010-11-15 Learn how to develop your own applications to monitor or control instrumentation hardware Whether you need to acquire data from a device or automate its functions this practical book shows you how to use Python's rapid development capabilities to build interfaces that include everything from software to wiring You get step by step instructions clear examples and hands on tips for interfacing a PC to a variety of devices Use the book's hardware survey to identify the interface type for your particular device and then follow detailed examples to develop an interface with Python and C Organized by interface type data processing activities and user interface implementations this book is for anyone who works with instrumentation robotics data acquisition or process control Understand how to define the scope of an application and determine the algorithms necessary and why it's important Learn how to use industry standard interfaces such as RS 232 RS 485 and GPIB Create low level extension modules in C to interface Python with a variety of hardware and test instruments Explore the console curses TkInter and wxPython for graphical and text based user interfaces Use open source software tools and libraries to reduce costs and avoid implementing functionality from scratch

Distributed and Parallel Architectures for Spatial Data Alberto Belussi, Sara Migliorini, 2021-01-20 This book aims at promoting new and innovative studies proposing new architectures or innovative evolutions of existing ones and illustrating experiments on current technologies in order to improve the efficiency and effectiveness of distributed and cluster systems when they deal with spatiotemporal data

Securing DevOps Julien Vehent, 2018-08-20 Summary Securing DevOps explores how the techniques of DevOps and security should be applied together to make cloud services safer This introductory book reviews the latest practices used in securing web applications and their infrastructure and teaches you techniques to integrate security directly into your product You'll also learn the core concepts of DevOps such as continuous integration continuous delivery and infrastructure as a service Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology An application running in the cloud can benefit from incredible efficiencies but they come with unique security threats too A DevOps team's highest priority is understanding those risks and hardening the system against them About the Book Securing DevOps teaches you the essential techniques to secure your cloud services Using compelling case studies it shows you how to build security into automated testing continuous delivery and other core DevOps processes This experience rich book is filled with mission critical strategies to protect web applications against attacks deter fraud attempts and make your services safer when operating at scale You'll also learn to identify assess and secure the unique vulnerabilities posed by cloud deployments and automation tools commonly used in modern infrastructures What's inside An approach to continuous security Implementing test driven security in DevOps Security techniques for cloud services Watching for fraud and responding to incidents Security testing and risk assessment About the Reader Readers should be comfortable with Linux and standard

DevOps practices like CI CD and unit testing About the Author Julien Vehent is a security architect and DevOps advocate He leads the Firefox Operations Security team at Mozilla and is responsible for the security of Firefox s high traffic cloud services and public websites Table of Contents Securing DevOps PART 1 Case study applying layers of security to a simple DevOps pipeline Building a barebones DevOps pipeline Security layer 1 protecting web applications Security layer 2 protecting cloud infrastructures Security layer 3 securing communications Security layer 4 securing the delivery pipeline PART 2 Watching for anomalies and protecting services against attacks Collecting and storing logs Analyzing logs for fraud and attacks Detecting intrusions The Caribbean breach a case study in incident response PART 3 Maturing DevOps security Assessing risks Testing security Continuous security

Deep Learning with PyTorch Eli Stevens, Luca Antiga, Thomas Viehmann, 2020-08-04 We finally have the definitive treatise on PyTorch It covers the basics and abstractions in great detail I hope this book becomes your extended reference document Soumith Chintala co creator of PyTorch Key Features Written by PyTorch s creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book Every other day we hear about new ways to put deep learning to good use improved medical imaging accurate credit card fraud detection long range weather forecasting and more PyTorch puts these superpowers in your hands Instantly familiar to anyone who knows Python data tools like NumPy and Scikit learn PyTorch simplifies deep learning without sacrificing advanced features It s great for building quick models and it scales smoothly from laptop to enterprise Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch This practical book gets you to work right away building a tumor image classifier from scratch After covering the basics you ll learn best practices for the entire deep learning pipeline tackling advanced projects as your PyTorch skills become more sophisticated All code samples are easy to explore in downloadable Jupyter notebooks What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API loading data in Python and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data better model architecture and fine tuning This Book Is Written For For Python programmers with an interest in machine learning No experience with PyTorch or other deep learning frameworks is required About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer and the past 7 years as Chief Technical Officer of a startup making medical device software Luca Antiga is co founder and CEO of an AI engineering company located in Bergamo Italy and a regular contributor to PyTorch Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich Germany and a PyTorch core developer Table of

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Unity in Action, Third Edition Joe Hocking, 2022-03-01 This hands on beginners guide gets you building games fast all with the awesome Unity engine You ll speed past the basics and use your existing coding skills to create 2D 3D and AR VR games In Unity in Action Third Edition you will learn how to Create characters that run jump and bump into things Build 3D first person shooters and third person action games Construct 2D card games and side scrolling platformers Script enemies with AI Improve game graphics by importing models and images Design an intuitive user interface for your games Play music and spatially aware sound effects Connect your games to the internet for online play Deploy your games to desktop mobile and the web Thousands of new game developers have chosen Joe Hocking s Unity in Action as their first step toward Unity mastery Starting with the initial groundwork of a new game development project you ll quickly start writing custom code instead of clicking together premade scripts This fully updated third edition comes packed with fully refreshed graphics Unity s latest features and coverage of augmented and virtual reality toolkits You ll master the Unity toolset from the ground up learning the skills to go from application coder to game developer Foreword by Jesse Schell About the technology Writing games is rewarding and fun and with Unity it s easy to get started Unity handles the heavy lifting so you can focus on game play graphics and user experience C support and a huge ecosystem of prebuilt components help even first time developers go from the drawing board to the screen fast About the book Unity in Action Third Edition teaches you to create games with the Unity game platform It s many 2D 3D and AR VR game examples give you hands on experience with Unity s workflow tools and state of the art rendering engine This fully updated third edition presents new coverage of Unity s XR toolkit and shows you how you can start building with virtual and augmented reality What s inside Create characters that run jump and bump into things Script enemies with AI Play music and spatially aware sound effects Deploy your games to desktop mobile and the web About the reader For programmers who know any object oriented programming language Examples are in C About the author Joe Hocking is a software engineer and Unity expert specializing in interactive media development Table of Contents PART 1 FIRST STEPS 1 Getting to know Unity 2 Building a demo that puts you in 3D space 3 Adding enemies and projectiles to the 3D game 4 Developing graphics for your game PART 2 GETTING COMFORTABLE 5 Building a Memory game using Unity s 2D functionality 6 Creating a basic 2D platformer 7 Putting a GUI onto a game 8 Creating a third person 3D game Player movement and animation 9 Adding

interactive devices and items within the game

PART 3 STRONG FINISH

10 Connecting your game to the internet

11 Playing audio Sound effects and music

12 Putting the parts together into a complete game

13 Deploying your game to players devices

Using the TI-84 Plus Christopher Mitchell, 2015-06-28 Summary This easy to follow book includes terrific tutorials and plenty of exercises and examples that let you learn by doing It starts by giving you a hands on orientation to the TI 84 Plus calculator Then you ll start exploring key features while you tackle problems just like the ones you ll see in your math and science classes Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About this Book With so many features and functions the TI 84 Plus graphing calculator can be a little intimidating But fear not if you have this book in your hand In it you ll find terrific tutorials ranging from mastering basic skills to advanced graphing and calculation techniques along with countless examples and exercises that let you learn by doing Using the TI 84 Plus Second Edition starts by making you comfortable with the screens buttons and special vocabulary you ll use every time you fire up the TI 84 Plus Then you ll master key features and techniques while you tackle problems just like the ones you ll see in your math and science classes You ll even get tips for using the TI 84 Plus on the SAT and ACT math sections No advanced knowledge of math or science is required What s Inside Learn hands on with real examples and exercises Find specific answers fast Compliant with all models of the TI 83 Plus and TI 84 Plus Full coverage of the color screen TI 84 Plus CE and TI 84 Plus C Silver Edition Christopher Mitchell PhD is a research scientist studying distributed systems the founder of the programming and calculator support site cemetechnet and the author of Manning s Programming the TI 83 Plus TI 84 Plus Table of Contents **PART 1 BASICS AND ALGEBRA ON THE TI 84 PLUS** What can your calculator do Get started with your calculator Basic graphing Variables matrices and lists **PART 2 PRECALCULUS AND CALCULUS** Expanding your graphing skills Precalculus and your calculator Calculus on the TI 83 Plus TI 84 Plus **PART 3 STATISTICS PROBABILITY AND FINANCE** Calculating and plotting statistics Working with probability and distributions Financial tools **PART 4 GOING FURTHER WITH THE TI 83 PLUS TI 84 PLUS** Turbocharging math with programming The TI 84 Plus CE and TI 84 Plus C Silver Edition Now what **Machine Learning and Artificial Intelligence: Concepts, Algorithms and Models** Reza Rawassizadeh, 2025-03-15 Mastering AI machine learning and data science often means piecing together concepts scattered across countless resources from statistics and visualizations to foundational models and large language models This book the result of eight years of effort brings it all together in one accessible engaging package It clarifies artificial intelligence and data science blending core mathematical principles with a clear reader friendly approach Unlike traditional textbooks that lean heavily on equations and mathematical formalization the author starts with minimal prerequisites layering deeper math as the reader progresses Each concept algorithm or model is unpacked through clear hands on examples that build the reader s skills step by step It strikes a balance between theoretical foundations and practical application serving as both an academic reference and a practical guide Furthermore the book uses humor casual

language and comics to make the challenging concepts and topics relatable and fun Any resemblance between the jokes and real life is pure coincidence and no offense is intended

Web Information Systems Engineering - WISE 2005

Workshops Yuanbo Guo, Woonchun Jun, Roland Kaschek, Shonati Krishnaswamy, Zhengxiang Pan, Quan Z. Sheng, 2005-10-24

This book constitutes the joint refereed proceedings of the three workshops held in conjunction with the 6th International Conference on Web Information Systems Engineering WISE 2005 in New York NY USA in November 2005 A total of 47 papers were submitted to the three workshops and 28 revised full papers were carefully selected for presentation The workshop on Web Information Systems Quality WISQ 2005 discussing and disseminating research on the quality of WIS and Web services from a holistic point of view included 7 papers out of 12 submissions The workshop on Web based Learning WBL 2005 accounted for 10 papers from 14 papers submitted organized in topical sections on tools models and innovative applications The workshop on Scalable Semantic Web Knowledge Base Systems SSWS 2005 included 11 presentations selected from 21 submissions Topics addressed are scalable repository and reasoning services practical Semantic Web applications query handling and optimization techniques

Hello Swift! Puneet Bakshi, Tanmay Bakshi, 2019-04-19

Summary Hello Swift is a how to guide to programming iOS Apps with the Swift language written from a kid s perspective This approachable well illustrated step by step guide takes you from beginning programming concepts all the way through developing complete apps Adults will like it too Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology It s fun to play games and explore new things on your iPhone How amazing would it be to create your own apps With a little practice you can Apple s Swift language along with special coding playgrounds and an easy to use programming environment make it easier than ever Take it from author Tanmay Bakshi who started programming when he was just five years old About the Book His book Hello Swift iOS app programming for kids and other beginners teaches you how to write apps for iPhones and iOS devices step by step starting with your first line of Swift code Packed with dozens of apps and special exercises the book will teach you how to program by writing games solving puzzles and exploring what your iPhone can do Hello Swift gets you started Where you go next is up to you What s inside Crystal clear explanations anyone can understand Kid friendly examples including games and puzzles Learn by doing you ll build dozens of small apps Exercises that encourage critical thinking About the Reader Written for kids who want to learn how to program Psst Adults like it too About the Author Tanmay Bakshi had his first app on the iOS App Store at the age of nine He s now the youngest IBM Champion a Cloud Advisor Watson Developer TED Speaker and Manning author Table of Contents Get ready to build apps with Swift Create your first app Your first real Swift code using variables I O laboratory Computers make decisions too Let computers do repetitive work Knitting variables into arrays and dictionaries Reuse your code Clean it with function detergent Reduce your code Use less do more with class detergent Reading and writing files Frameworks Bookshelves of classes SpriteKit Fun animation time Time to watch your WatchKit code Continuing your journey

with Swift Fundamentals of Environmental Sampling and Analysis Chunlong Zhang, 2024-02-29 Fundamentals of Environmental Sampling and Analysis A fully reworked and updated introduction to the fundamentals and applications of environmental sampling and analysis Environmental sampling and analysis are essential components of environmental data acquisition and scientific research The acquisition of reliable data with respect to proper sampling chemical and instrumental methodology and QA QC is a critical precursor to all environmental work No would be environmental scientist engineer or policymaker can succeed without an understanding of how to correctly acquire assess and use credible data Fundamentals of Environmental Sampling and Analysis 2nd edition provides this understanding with a comprehensive survey of the theory and applications of these critical sampling and analytical tools The field of environmental research has expanded greatly since the publication of the first edition and this book has been completely rewritten to reflect the latest studies and technological developments The resulting mix of theory and practice will continue to serve as the standard introduction to the subject Readers of the second edition of Fundamentals of Environmental Sampling and Analysis will also find Three new chapters and numerous expanded sections on topics of emerging environmental concerns Detailed discussion of subjects including passive sampling Raman spectroscopy non targeted mass spectroscopic analysis and many more Over 500 sample problems and solutions along with other supplementary instructional materials Fundamentals of Environmental Sampling and Analysis is ideal for students of environmental science and engineering as well as professionals and regulators for whom reliable environmental data through sampling and analysis is critical **Mastering Spark with R** Javier Luraschi, Kevin Kuo, Edgar Ruiz, 2019-10-07 If you re like most R users you have deep knowledge and love for statistics But as your organization continues to collect huge amounts of data adding tools such as Apache Spark makes a lot of sense With this practical book data scientists and professionals working with large scale data applications will learn how to use Spark from R to tackle big data and big compute problems Authors Javier Luraschi Kevin Kuo and Edgar Ruiz show you how to use R with Spark to solve different data analysis problems This book covers relevant data science topics cluster computing and issues that should interest even the most advanced users Analyze explore transform and visualize data in Apache Spark with R Create statistical models to extract information and predict outcomes automate the process in production ready workflows Perform analysis and modeling across many machines using distributed computing techniques Use large scale data from multiple sources and different formats with ease from within Spark Learn about alternative modeling frameworks for graph processing geospatial analysis and genomics at scale Dive into advanced topics including custom transformations real time data processing and creating custom Spark extensions *Windows Server Automation with PowerShell Cookbook* Thomas Lee, 2023-01-31 Use over 100 PowerShell 7 2 recipes to deepen your understanding of Windows Server 2022 and see how to automate common administrative tasks with ease Purchase of the print or Kindle book includes a free eBook in PDF format Key Features New edition updated to the latest version of PowerShell 7 2 and Windows Server 2022 Discover new ways to optimize your

PowerShell code by working through easy to follow recipes Learn PowerShell best practices to automate common tasks and manage DHCP in Microsoft Windows Server objects in Active Directory Hyper V and Azure Book Description The Windows Server Automation with PowerShell Cookbook is back with a new edition featuring over 100 PowerShell recipes that will make your day to day work easier This book is designed to help you learn how to install configure and use PowerShell 7 2 effectively To start with we ll look at how to install and configure PowerShell 7 2 along with useful new features and optimizations and show you how the PowerShell compatibility solution bridges the gap to older versions of PowerShell We ll also be covering a wide range of fundamental and more advanced use cases including how to create a VM and set up an Azure VPN as well as looking at how to back up to Azure As you progress you ll explore topics such as using PowerShell to manage networking and DHCP in Windows Server objects in Active Directory Hyper V and Azure We ll also take a closer look at WSUS containers and see how to handle modules that are not directly compatible with PowerShell 7 Finally you ll also learn how to use some powerful tools to diagnose and resolve issues with Windows Server By the end of this PowerShell book you ll know how to use PowerShell 7 2 to automate tasks on Windows Server 2022 with ease helping your Windows environment to run faster and smoother What you will learn Perform key admin tasks on Windows Server Keep your organization secure with JEA group policies logs and Windows Defender Use NET Framework for administrative scripting Manage data and storage on Windows including disks volumes and filesystems Report system performance using built in cmdlets and WMI to obtain single measurements Apply the right tools and modules to troubleshoot and debug Windows Server Create manage and back up a second VM using the subnetwork in Azure Learn how to set up a VPN in Azure with PowerShell Who this book is for This book is for systems administrators software architects developers consultants and engineers working with Windows Server 2022 who want to automate tasks more effectively with PowerShell 7 2 You ll need to have conquered the basics of PowerShell and have a rudimentary understanding of PowerShell scripting before you can get started with this book

Windows Forms Programming with C# Erik E. Brown, 2002 The new C language and Internet software services have received much of the attention surrounding Microsoft s new NET environment However Microsoft has also redesigned the way Windows desktop applications will be created and deployed in the future Intended as a tutorial for C and Java programmers at all levels this book shows how C and the NET framework can be used to develop Windows applications with NET As a way to demonstrate how Windows Forms applications are constructed the book provides a chapter by chapter guide to building an image application to view share and manage digital photos stored on a hard drive or on removable media Also discussed are Visual Studio 7 0 C language syntax and usage Windows Forms controls ADO NET and other topics vital to the creation and deployment of Windows applications in this new environment

Race, Culture and Disability Fabricio E. Balcazar, Yolanda Suarez-Balcazar, Tina Taylor-Ritzler, Christopher B. Keys, 2010-10-22 Race Culture and Disability Rehabilitation Science and Practice is a guide to understanding the research and practical implications related to

race culture and disability in rehabilitation science Edited and contributed by leading experts this multidisciplinary work examines the intersection of the constructs of race culture and disability in order to identify strategies for improving the effectiveness of rehabilitation practice with ethnic minority consumers This text is an extremely timely and relevant contribution for students researchers and practitioners in the rehabilitation fields Key topics covered include disability identity psychological testing evidence based practice community infrastructure employment issues and much more

Douglas Rayner Hartree Charlotte Froese Fischer,2003 This scientific biography of Douglas R Hartree not only describes important events in his life but also outlines his contributions to a number of fields He is best known for his self consistent field theory for atoms a theory he later used for the much more difficult problem of predicting the behavior of a magnetron When Fock pre empted his work on exchange he began research into radio wave propagation Hartree was very interested in the process of computation When he learned of a differential analyzer for solving differential equations he first built a model using Meccano a toy for children The success of this model spread the notion of using devices to solve scientific problems Application of the analyzer led Hartree to control theory and fluid dynamics In both these areas he made significant original contribution With his extensive computing background he was selected as the first civilian to evaluate the possibility of applying the US ENIAC computer to nonmilitary problems His research touched the lives of many scientists Evolution in Computational Intelligence Vikrant Bhateja,Jinshan Tang,Suresh Chandra Satapathy,Peter Peer,Ranjita Das,2022-04-23 This book presents the proceedings of the 9th International Conference on Frontiers of Intelligent Computing Theory and Applications FICTA 2021 held at NIT Mizoram Aizwal Mizoram India during June 25 26 2021 FICTA conference aims to bring together researchers scientists engineers and practitioners to exchange their new ideas and experiences in the domain of intelligent computing theories with prospective applications to various engineering disciplines This volume covers broad areas of Evolution in Computational Intelligence The conference papers included herein presents both theoretical as well as practical aspects of different areas like ANN and genetic algorithms human computer interaction intelligent control optimization evolutionary computing intelligent e learning systems machine learning mobile computing multi agent systems etc The volume will also serve as a knowledge centre for students of post graduate level in various engineering disciplines

Machine Translation Pushpak Bhattacharyya,2015-02-04 This book compares and contrasts the principles and practices of rule based machine translation RBMT statistical machine translation SMT and example based machine translation EBMT Presenting numerous examples the text introduces language divergence as the fundamental challenge to machine translation emphasizes and works out word alignment explores IBM models of machine translation covers the mathematics of phrase based SMT provides complete walk throughs of the working of interlingua based and transfer based RBMT and analyzes EBMT showing how translation parts can be extracted and recombined to automatically translate a new input **DevOps for Airborne Software** Wanja Zaeske,Umut Durak,2022-07-27 This Springer Brief presents a selection of

tools and techniques which either enable or improve the use of DevOps for airborne software engineering They are evaluated against the unique challenges of the aviation industry such as safety and airworthiness and exercised using a demonstrator in order to gather first experience The book is structured as follows after a short introduction to the main topics of the work in chapter 1 chapter 2 provides more information on the tools techniques software and standards required to implement the subsequently presented ideas In particular the development practice BDD the relation between DevOps CI CD and both the Rust the Nix programming language are introduced In chapter 3 the authors explain and justify their ideas towards advancing the state of the art mapping the aforementioned tools and techniques to the DevOps Cycle while considering aspects of Do 178C Next in chapter 4 the experiences gathered while implementing a demonstrator using the tools and techniques are described Eventually chapter 5 briefly summarizes the findings and presents a compilation of open points and missing pieces which are yet to be resolved The book targets three different reader groups The first one are development managers from the aerospace industry who need to see examples and experience reports for the application of DevOps for airborne software The second group are investigators in the safety critical embedded systems domain who look for benchmarks at various application domains And the third group are lecturers who offer graduate level software engineering courses for safety critical software engineering

Microservices Patterns Chris Richardson, 2018-10-27 A comprehensive overview of the challenges teams face when moving to microservices with industry tested solutions to these problems Tim Moore Lighbend 44 reusable patterns to develop and deploy reliable production quality microservices based applications with worked examples in Java Key Features 44 design patterns for building and deploying microservices applications Drawing on decades of unique experience from author and microservice architecture pioneer Chris Richardson A pragmatic approach to the benefits and the drawbacks of microservices architecture Solve service decomposition transaction management and inter service communication Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book Microservices Patterns teaches you 44 reusable patterns to reliably develop and deploy production quality microservices based applications This invaluable set of design patterns builds on decades of distributed system experience adding new patterns for composing services into systems that scale and perform under real world conditions More than just a patterns catalog this practical guide with worked examples offers industry tested advice to help you design implement test and deploy your microservices based application What You Will Learn How and why to use microservices architecture Service decomposition strategies Transaction management and querying patterns Effective testing strategies Deployment patterns This Book Is Written For Written for enterprise developers familiar with standard enterprise application architecture Examples are in Java About The Author Chris Richardson is a Java Champion a JavaOne rock star author of Manning s POJOs in Action and creator of the original CloudFoundry com Table of Contents Escaping monolithic hell Decomposition strategies Interprocess communication in a microservice architecture Managing

transactions with sagas Designing business logic in a microservice architecture Developing business logic with event sourcing Implementing queries in a microservice architecture External API patterns Testing microservices part 1 Testing microservices part 2 Developing production ready services Deploying microservices Refactoring to microservices

Supercomputing Frontiers Rio Yokota, Weigang Wu, 2018-03-20 It constitutes the refereed proceedings of the 4th Asian Supercomputing Conference SCFA 2018 held in Singapore in March 2018 Supercomputing Frontiers will be rebranded as Supercomputing Frontiers Asia SCFA which serves as the technical programme for SCA18 The technical programme for SCA18 consists of four tracks Application Algorithms Libraries Programming System Software Architecture Network Communications Management Data Storage Visualisation The 20 papers presented in this volume were carefully reviewed and selected from 60 submissions

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