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KEY=DMG - ALEXANDER ZION

A GUIDE TO KERNEL EXPLOITATION

ATTACKING THE CORE

Elsevier A Guide to Kernel Exploitation: Attacking the Core discusses the theoretical techniques and approaches needed to develop reliable and effective kernel-level exploits, and applies them to different operating systems, namely, UNIX derivatives, Mac OS X, and Windows. Concepts and tactics are presented categorically so that even when a specifically detailed vulnerability has been patched, the foundational information provided will help hackers in writing a newer, better attack; or help pen testers, auditors, and the like develop a more concrete design and defensive structure. The book is organized into four parts. Part I introduces the kernel and sets out the theoretical basis on which to build the rest of the book. Part II focuses on different operating systems and describes exploits for them that target various bug classes. Part III on remote kernel exploitation analyzes the effects of the remote scenario and presents new techniques to target remote issues. It includes a step-by-step analysis of the development of a reliable, one-shot, remote exploit for a real vulnerabilitya bug affecting the SCTP subsystem found in the Linux kernel. Finally, Part IV wraps up the analysis on kernel exploitation and looks at what the future may hold. Covers a range of operating system families — UNIX derivatives, Mac OS X, Windows Details common scenarios such as generic memory corruption (stack overflow, heap overflow, etc.) issues, logical bugs and race conditions Delivers the reader from user-land exploitation to the world of kernel-land (OS) exploits/attacks, with a particular focus on the steps that lead to the creation of successful techniques, in order to give to the reader something more than just a set of tricks

THE DEFINITIVE GUIDE TO SQLITE

Apress Outside of the world of enterprise computing, there is one database that enables a huge range of software and hardware to flex relational database capabilities, without the baggage and cost of traditional database management systems. That database is SQLite—an embeddable database with an amazingly small footprint, yet able to handle databases of enormous size. SQLite comes equipped with an array of powerful features available through a host of programming and development environments. It is supported by languages such as C, Java, Perl, PHP, Python, Ruby, TCL, and more. The Definitive Guide to SQLite, Second Edition is devoted to complete coverage of the latest version of this powerful database. It offers a thorough overview of SQLite’s capabilities and APIs. The book also uses SQLite as the basis for helping newcomers make their first foray into database development. In only a short time you can be writing programs as diverse as a server-side browser plug-in or the next great iPhone or Android application! Learn about SQLite extensions for C, Java, Perl, PHP, Python, Ruby, and Tcl. Get solid coverage of SQLite internals. Explore developing iOS (iPhone) and Android applications with SQLite. SQLite is the solution chosen for thousands of products around the world, from mobile phones and GPS devices to set-top boxes and web browsers. You almost certainly use SQLite every day without even realizing it!

THE MAC HACKER'S HANDBOOK

John Wiley & Sons As more and more vulnerabilities are found in the Mac OS X (Leopard) operating system, security researchers are realizing the importance of developing proof-of-concept exploits for those vulnerabilities. This unique tome is the first book to uncover the flaws in the Mac OS X operating system—and how to deal with them. Written by two white hat hackers, this book is aimed at making vital information known so that you can find ways to secure your Mac OS X systems, and examines the sorts of attacks that are prevented by Leopard’s security defenses, what attacks aren’t, and how to best handle those weaknesses.

ANDROID SECURITY INTERNALS

AN IN-DEPTH GUIDE TO ANDROID'S SECURITY ARCHITECTURE

No Starch Press There are more than one billion Android devices in use today, each one a potential target. Unfortunately, many fundamental Android security features have been little more than a black box to all but the most elite security professionals—until now. In *Android Security Internals*, top Android security expert Nikolay Elenkov takes us under the hood of the Android security system. Elenkov describes Android security architecture from the bottom up, delving into the implementation of major security-related components and subsystems, like Binder IPC, permissions, cryptographic providers, and device administration. You'll learn: –How Android permissions are declared, used, and enforced –How Android manages application packages and employs code signing to verify their authenticity –How Android implements the Java Cryptography Architecture (JCA) and Java Secure Socket Extension (JSSE) frameworks –About Android's credential storage system and APIs, which let applications store cryptographic keys securely –About the online account management framework and how Google accounts integrate with Android –About the implementation of verified boot, disk encryption, lockscreen, and other device security features –How Android's bootloader and recovery OS are used to perform full system updates, and how to obtain root access With its unprecedented level of depth and detail, *Android Security Internals* is a must-have for any security-minded Android developer.

MACHINE TOOLS FOR HIGH PERFORMANCE MACHINING

Springer Science & Business Media Machine tools are the main production factor for many industrial applications in many important sectors. Recent developments in new motion devices and numerical control have led to considerable technological improvements in machine tools. The use of five-axis machining centers has also spread, resulting in reductions in set-up and lead times. As a consequence, feed rates, cutting speed and chip section increased, whilst accuracy and precision have improved as well. Additionally, new cutting tools have been developed, combining tough substrates, optimal geometries and wear resistant coatings. "Machine Tools for High Performance Machining" describes in depth several aspects of machine structures, machine elements and control, and application. The basics, models and functions of each aspect are explained by experts from both academia and industry. Postgraduates, researchers and end users will all find this book an essential reference.

CLOUD DATA DESIGN, ORCHESTRATION, AND MANAGEMENT USING MICROSOFT AZURE

MASTER AND DESIGN A SOLUTION LEVERAGING THE AZURE DATA PLATFORM

Apress Use Microsoft Azure to optimally design your data solutions and save time and money. Scenarios are presented covering analysis, design, integration, monitoring, and derivatives. This book is about data and provides you with a wide range of possibilities to implement a data solution on Azure, from hybrid cloud to PaaS services. Migration from existing solutions is presented in detail. Alternatives and their scope are discussed. Five of six chapters explore PaaS, while one focuses on SQL Server features for cloud and relates to hybrid cloud and IaaS functionalities. What You'll Learn Know the Azure services useful to implement a data solution Match the products/services used to your specific needs Fit relational databases efficiently into data design Understand how to work with any type of data using Azure hybrid and public cloud features Use non-relational alternatives to solve even complex requirements Orchestrate data movement using Azure services Approach analysis and manipulation according to the data life cycle Who This Book Is For Software developers and professionals with a good data design background and basic development skills who want to learn how to implement a solution using Azure data services

PRO PUPPET

Apress Pro Puppet is an in-depth guide to installing, using, and developing the popular configuration management tool Puppet. The book is a comprehensive follow-up to the previous title *Pulling Strings with Puppet*. Puppet provides a way to automate everything from user management to server configuration. You'll learn how to create Puppet recipes, extend Puppet, and use *Factor* to gather configuration data from your servers. Puppet is a must-have tool for system administrators, and Pro Puppet will teach you how to maximize its capabilities and customize it for your environment. Install and configure Puppet to immediately start automating tasks and create reporting solutions Learn insider tricks and techniques to better manage your infrastructure Become a Puppet expert!

IOS HACKER'S HANDBOOK

John Wiley & Sons Discover all the security risks and exploits that can threaten iOS-based mobile devices iOS is Apple's mobile operating system for the iPhone and iPad. With the introduction of iOS5, many security issues have come to light. This book explains and discusses them all. The award-winning author team, experts in Mac and iOS security, examines the vulnerabilities and the internals of iOS to show how attacks can be mitigated. The book explains how the operating system works, its overall security architecture, and the security risks associated with it, as well as exploits, rootkits, and other

payloads developed for it. Covers iOS security architecture, vulnerability hunting, exploit writing, and how iOS jailbreaks work Explores iOS enterprise and encryption, code signing and memory protection, sandboxing, iPhone fuzzing, exploitation, ROP payloads, and baseband attacks Also examines kernel debugging and exploitation Companion website includes source code and tools to facilitate your efforts iOS Hacker's Handbook arms you with the tools needed to identify, understand, and foil iOS attacks.

AN ANTHOLOGY OF CLASSIC AUSTRALIAN FOLKLORE

Lonely because he is the only mouse in the church, Arthur asks all the town mice to join him. Unfortunately the congregation aren't so welcoming. But all is not lost when a robber tries to steal the church candlesticks, the mice foil his plans and win back their home.

GREASEMONKEY HACKS

TIPS & TOOLS FOR REMIXING THE WEB WITH FIREFOX

"O'Reilly Media, Inc." Greasemonkey Hacks is an invaluable compendium 100 ingenious hacks for power users who want to master Greasemonkey, the hot new Firefox extension that allows you to write scripts that alter the web pages you visit. With Greasemonkey, you can create scripts that make a web site more usable, fix rendering bugs that site owners can't be bothered to fix themselves, or add items to a web site's menu bar. You can alter pages so they work better with technologies that speak a web page out loud or convert it to Braille. Greasemonkey gurus can even import, combine, and alter data from different web sites to meet their own specific needs. Greasemonkey has achieved a cult-like following in its short lifespan, but its uses are just beginning to be explored. Let's say you're shopping on an e-commerce site. You can create a script that will automatically display competitive prices for that particular product from other web sites. The possibilities are limited only by your imagination and your Greasemonkey expertise. Greasemonkey Hacks can't help you with the imagination part, but it can provide the expert hacks-complete with the sample code-you need to turn your brainstorm into reality. More than just an essential collection of made-to-order Greasemonkey solutions, Greasemonkey Hacks is crammed with sample code, a Greasemonkey API reference, and a comprehensive list of resources, to ensure that every resource you need is available between its covers. Some people are content to receive information from websites passively; some people want to control it. If you are one of the latter, Greasemonkey Hacks provides all the clever customizations and cutting-edge tips and tools you need to take command of any web page you view.

THE LATEX COMPANION

Addison-Wesley Professional This is the digital version of the printed book (Copyright © 2004). The LaTeX Companion has long been the essential resource for anyone using LaTeX to create high-quality printed documents. This completely updated edition brings you all the latest information about LaTeX and the vast range of add-on packages now available--over 200 are covered! Full of new tips and tricks for using LaTeX in both traditional and modern typesetting, this book will also show you how to customize layout features to your own needs--from phrases and paragraphs to headings, lists, and pages. Inside, you will find: Expert advice on using LaTeX's basic formatting tools to create all types of publications--from memos to encyclopedias In-depth coverage of important extension packages for tabular and technical typesetting, floats and captions, multicolumn layouts--including reference guides and discussions of the underlying typographic and TeXnical concepts Detailed techniques for generating and typesetting contents lists, bibliographies, indexes, etc. Tips and tricks for LaTeX programmers and systems support New to this edition: Nearly 1,000 fully tested examples that illustrate the text and solve typographical and technical problems--all ready to run! An additional chapter on citations and bibliographies Expanded material on the setup and use of fonts to access a huge collection of glyphs, and to typeset text from a wide range of languages and cultures Major new packages for graphics, "verbatim" listings, floats, and page layout Full coverage of the latest packages for all types of documents--mathematical, multilingual, and many more Detailed help on all error messages, including those troublesome low-level TeX errors Like its predecessor, The LaTeX Companion, Second Edition, is an indispensable reference for anyone wishing to productively use LaTeX. Appendix D talks about the TLC2 TeX CD at the end of the book, something you will have a hard time finding in the eBook. The most important content of the CD included with the print book is the full text of the examples. You can find the examples easily on the Internet, for example at <http://www.ctan.org/tex-archive/info/examples/tlc2> as well as in many LaTeX installations.

RESTORATION OF ROOT CANAL-TREATED TEETH

AN ADHESIVE DENTISTRY PERSPECTIVE

Springer This book offers a comprehensive and up-to-date overview of the restoration of teeth retained through root canal treatment, from the perspective of adhesive dentistry. The challenge of adhesion to root dentin is first explained and guidance provided on assessment of the restorability of endodontically treated teeth. The types of prefabricated passive post are then described in detail. The advantages and disadvantages of each type are outlined, with identification of the factors that influence post selection. Further topics include the ferrule effect, evidence-based clinical applications of fiber

posts and new methods to lute fiber posts to the root canal without dentin adhesives. In addition, frequent myths are identified and dispelled. All aspects are illustrated with clinical and laboratory images, diagrams and high-resolution electron microscopy photographs.

LEARN KOTLIN FOR ANDROID DEVELOPMENT

THE NEXT GENERATION LANGUAGE FOR MODERN ANDROID APPS PROGRAMMING

Apress Build Android apps and learn the essentials of the popular Kotlin programming language and APIs. This book will teach you the key Kotlin skills and techniques important for creating your very own Android apps. Apart from introducing Kotlin programming, Learn Kotlin for Android Development stresses clean code principles and introduces object-oriented and functional programming as a starting point for developing Android apps. After reading and using this book, you'll have a foundation to take away and apply to your own Kotlin-based Android app development. You'll be able to write useful and efficient Kotlin-based apps for Android, using most of the features Kotlin as a language has to offer. What You Will Learn Build your first Kotlin app that runs on Android Work with Kotlin classes and objects for Android Use constructs, loops, decisions, and scopes Carry out operations on data Master data containers, arrays, and collections Handle exceptions and access external libraries Who This Book Is For Very little programming experience is required: no prior knowledge of Kotlin needed.

PRO HADOOP DATA ANALYTICS

DESIGNING AND BUILDING BIG DATA SYSTEMS USING THE HADOOP ECOSYSTEM

Apress Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful, precise, and efficient. This book provides the right combination of architecture, design, and implementation information to create analytical systems that go beyond the basics of classification, clustering, and recommendation. Pro Hadoop Data Analytics emphasizes best practices to ensure coherent, efficient development. A complete example system will be developed using standard third-party components that consist of the tool kits, libraries, visualization and reporting code, as well as support glue to provide a working and extensible end-to-end system. The book also highlights the importance of end-to-end, flexible, configurable, high-performance data pipeline systems with analytical components as well as appropriate visualization results. You'll discover the importance of mix-and-match or hybrid systems, using different analytical components in one application. This hybrid approach will be prominent in the examples. What You'll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries, tool kits, and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases, noSQL data sources, and more Follow case studies with example components to create your own systems Who This Book Is For Software engineers, architects, and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop, the Hadoop ecosystem, and other associated technologies.

INTRODUCING PYTHON

MODERN COMPUTING IN SIMPLE PACKAGES

O'Reilly Media Easy to understand and fun to read, this updated edition of Introducing Python is ideal for beginning programmers as well as those new to the language. Author Bill Lubanovic takes you from the basics to more involved and varied topics, mixing tutorials with cookbook-style code recipes to explain concepts in Python 3. End-of-chapter exercises help you practice what you've learned. You'll gain a strong foundation in the language, including best practices for testing, debugging, code reuse, and other development tips. This book also shows you how to use Python for applications in business, science, and the arts, using various Python tools and open source packages.

VASCULOPATHIES

BEHAVIORAL, CHEMICAL, ENVIRONMENTAL, AND GENETIC FACTORS

Springer This volume presents one of the clinical foundations of vasculopathies: the biological markers and risk factors associated with cardiovascular disease. A detailed biological and clinical framework is provided as a prerequisite for adequate modeling. Chapter 1 presents cardiovascular risk factors and markers, where the search for new criteria is aimed at improving early detection of chronic diseases. The subsequent chapters focus on hypertension, which involves the kidney among other organs as well as many agents, hyperglycemia and diabetes, hyperlipidemias and obesity, and behavior. The last of these risk factors includes altered circadian rhythm, tobacco and alcohol consumption, physical inactivity, and diet. The volumes in this series present all of the data needed at various length scales for a

multidisciplinary approach to modeling and simulation of flows in the cardiovascular and ventilatory systems, especially multiscale modeling and coupled simulations. The cardiovascular and respiratory systems are tightly coupled, as their primary function is to supply oxygen to and remove carbon dioxide from the body's cells. Because physiological conduits have deformable and reactive walls, macroscopic flow behavior and prediction must be coupled to nano- and microscopic events in a corrector scheme of regulated mechanisms. Therefore, investigation of flows of blood and air in anatomical conduits requires an understanding of the biology, chemistry, and physics of these systems together with the mathematical tools to describe their functioning in quantitative terms.

IAP SPECIALTY SERIES ON RATIONAL ANTIMICROBIAL PRACTICE IN PEDIATRICS

Jaypee Brothers Medical Publishers

THE DEFINITIVE GUIDE TO MODERN JAVA CLIENTS WITH JAVAFX

CROSS-PLATFORM MOBILE AND CLOUD DEVELOPMENT

Apress Build enhanced visual experiences and design and deploy modern, easy-to-maintain, client applications across a variety of platforms. This book will show you how these applications can take advantage of the latest user interface components, 3D technology, and cloud services to create immersive visualizations and allow high-value data manipulation. The Definitive Guide to Modern Java Clients with JavaFX is a professional reference for building Java applications for desktop, mobile, and embedded in the Cloud age. It offers end-to-end coverage of the latest features in JavaFX and Java 13. After reading this book, you will be equipped to upgrade legacy client applications, develop cross-platform applications in Java, and build enhanced desktop and mobile native clients. What You Will Learn Create modern client applications in Java using the latest JavaFX and Java 13 Build enterprise clients that will enable integration with existing cloud services Use advanced visualization and 3D features Deploy on desktop, mobile, and embedded devices Who This Book Is For Professional Java developers who are interested in learning the latest client Java development techniques to fill out their skillset.

THE DEBIAN ADMINISTRATOR'S HANDBOOK

DEBIAN JESSIE FROM DISCOVERY TO MASTERY

FreeXian Debian GNU/Linux, a very popular non-commercial Linux distribution, is known for its reliability and richness. Built and maintained by an impressive network of thousands of developers throughout the world, the Debian project is cemented by its social contract. This foundation text defines the project's objective: fulfilling the needs of users with a 100% free operating system. The success of Debian and of its ecosystem of derivative distributions (with Ubuntu at the forefront) means that an increasing number of administrators are exposed to Debian's technologies. This Debian Administrator's Handbook, which has been entirely updated for Debian 8 "Jessie", builds on the success of its 6 previous editions. Accessible to all, this book teaches the essentials to anyone who wants to become an effective and independent Debian GNU/Linux administrator. It covers all the topics that a competent Linux administrator should master, from installation to updating the system, creating packages and compiling the kernel, but also monitoring, backup and migration, without forgetting advanced topics such as setting up SELinux or AppArmor to secure services, automated installations, or virtualization with Xen, KVM or LXC. This book is not only designed for professional system administrators. Anyone who uses Debian or Ubuntu on their own computer is de facto an administrator and will find tremendous value in knowing more about how their system works. Being able to understand and resolve problems will save you invaluable time. Learn more about the book on its official website: debian-handbook.info

HANDS-ON MICROSERVICES WITH RUST

BUILD, TEST, AND DEPLOY SCALABLE AND REACTIVE MICROSERVICES WITH RUST 2018

Packt Publishing Ltd A comprehensive guide in developing and deploying high performance microservices with Rust Key Features Start your microservices journey and get a broader perspective on microservices development using RUST 2018. Build, deploy, and test microservices using AWS Explore advanced techniques for developing microservices such as actor model, Requests Routing, and threads Book Description Microservice architecture is sweeping the world as the de facto pattern for building web-based applications. Rust is a language particularly well-suited for building microservices. It is a new system programming language that offers a practical and safe alternative to C. This book describes web development using the Rust programming language and will get you up and running with modern web frameworks and crates with examples of RESTful microservices creation. You will deep dive into Reactive programming, and asynchronous programming, and split your web application into a set of concurrent actors. The book provides several HTTP-handling examples with manageable memory allocations. You will walk through stateless high-performance microservices, which are ideally

suitable for computation or caching tasks, and look at stateful microservices, which are filled with persistent data and database interactions. As we move along, you will learn how to use Rust macros to describe business or protocol entities of our application and compile them into native structs, which will be performed at full speed with the help of the server's CPU. Finally, you will be taken through examples of how to test and debug microservices and pack them into a tiny monolithic binary or put them into a container and deploy them to modern cloud platforms such as AWS. What you will learn Get acquainted with leveraging Rust web programming Get to grips with various Rust crates, such as hyper, Tokio, and Actix Explore RESTful microservices with Rust Understand how to pack Rust code to a container using Docker Familiarize yourself with Reactive microservices Deploy your microservices to modern cloud platforms such as AWS Who this book is for This book is for developers who have basic knowledge of RUST, and want to learn how to build, test, scale, and manage RUST microservices. No prior experience of writing microservices in RUST is assumed.

PREFERRED STOCK INVESTING

BookLocker.com, Inc. "Preferred Stock Investing" teaches non-experts a simple method of investing in investment grade preferred stocks for annual returns that have averaged more than 14 percent since January 2001. The book purchase includes a subscription to the monthly email CDx3 Preferred Stock Newsletter.

MASTERING DISTRIBUTED TRACING

ANALYZING PERFORMANCE IN MICROSERVICES AND COMPLEX SYSTEMS

Packt Publishing Ltd Understand how to apply distributed tracing to microservices-based architectures Key Features A thorough conceptual introduction to distributed tracing An exploration of the most important open standards in the space A how-to guide for code instrumentation and operating a tracing infrastructure Book Description Mastering Distributed Tracing will equip you to operate and enhance your own tracing infrastructure. Through practical exercises and code examples, you will learn how end-to-end tracing can be used as a powerful application performance management and comprehension tool. The rise of Internet-scale companies, like Google and Amazon, ushered in a new era of distributed systems operating on thousands of nodes across multiple data centers. Microservices increased that complexity, often exponentially. It is harder to debug these systems, track down failures, detect bottlenecks, or even simply understand what is going on. Distributed tracing focuses on solving these problems for complex distributed systems. Today, tracing standards have developed and we have much faster systems, making instrumentation less intrusive and data more valuable. Yuri Shkuro, the creator of Jaeger, a popular open-source distributed tracing system, delivers end-to-end coverage of the field in Mastering Distributed Tracing. Review the history and theoretical foundations of tracing; solve the data gathering problem through code instrumentation, with open standards like OpenTracing, W3C Trace Context, and OpenCensus; and discuss the benefits and applications of a distributed tracing infrastructure for understanding, and profiling, complex systems. What you will learn How to get started with using a distributed tracing system How to get the most value out of end-to-end tracing Learn about open standards in the space Learn about code instrumentation and operating a tracing infrastructure Learn where distributed tracing fits into microservices as a core function Who this book is for Any developer interested in testing large systems will find this book very revealing and in places, surprising. Every microservice architect and developer should have an insight into distributed tracing, and the book will help them on their way. System administrators with some development skills will also benefit. No particular programming language skills are required, although an ability to read Java, while non-essential, will help with the core chapters.

NANOBIOMEDICINE

Springer Nature This book provides a comprehensive overview of the recent trends in various Nanotechnology-based therapeutics and challenges associated with its development. Nanobiotechnology is an interdisciplinary research that has wide applications in the various fields of biomedical research. The book discusses the various facets of the application of Nanotechnology in drug delivery, clinical diagnostics, Nanomedicine and treatment of infectious and chronic diseases. The book also highlights the recent advancements on important devices and applications that are based on Nanotechnology in medicine and brief the regulatory and ethical issues related to nanomedical devices. It also reviews the toxicological profile of various nanomaterials and emphasizes the need for safe nanomaterials for clinical use. Finally, the book discusses the recent developments of potential commercial applications of Nanotechnology.

MODELING LANGUAGES IN MATHEMATICAL OPTIMIZATION

Springer Science & Business Media This volume presents a unique combination of modeling and solving real world optimization problems. It is the only book which treats systematically the major modeling languages and systems used to solve mathematical optimization problems, and it also provides a useful overview and orientation of today's modeling languages in mathematical optimization. It demonstrates the strengths and characteristic features of such languages and provides a bridge for researchers, practitioners and students into a new world: solving real optimization problems with the most advances modeling systems.

REEMERGENCE OF ESTABLISHED PATHOGENS IN THE 21ST CENTURY

Springer Science & Business Media In the closing decade of the last century, we saw warnings that infectious diseases will require much more attention from patients and physicians in the 21 st century. Recently d- covered diseases such as AIDS pose a major threat to the population at large, and to that threat has been added the re-emergence of established pathogens, microbes that were re- ily treatable in the past. Since infectious diseases already play a major role in the burden of illness and mortality, health care providers and planners are worried. A large proportion of the problem is man- made, arising mainly from the unnecessary overuse of antimicrobials in hospital and community settings and from the agricultural misuse of the agents in animal feed. A consequence has been a dramatic increase in resi- ant strains of bacteria that were considered conquerable several decades ago. Community infections caused by multi-resistant pneumococci serve as an example. These organisms were readily treated with penicillin, but now the spread of penicillin-resistant Streptococcus pneumoniae from continent to continent is becoming a worldwide problem. This is a major concern because pneumococcal infections are common in the community, being the le- ing cause of pneumonia, sinusitis, and meningitis. Resistant bacteria in hospitals are also becoming more prevalent. We have become accustomed to hearing about methicill- resistant Staphylococcus aureus (MRSA) and vancomycin-resistant enterococci (VRE), but now we have to be concerned about multidrug-resistant coliform bacteria and pseudomonads.

OPTIMIZATION AND DECISION SCIENCE: METHODOLOGIES AND APPLICATIONS

ODS, SORRENTO, ITALY, SEPTEMBER 4-7, 2017

Springer This proceedings volume highlights the state-of-the-art knowledge related to optimization, decisions science and problem solving methods, as well as their application in industrial and territorial systems. It includes contributions tackling these themes using models and methods based on continuous and discrete optimization, network optimization, simulation and system dynamics, heuristics, metaheuristics, artificial intelligence, analytics, and also multiple-criteria decision making. The number and the increasing size of the problems arising in real life require mathematical models and solution methods adequate to their complexity. There has also been increasing research interest in Big Data and related challenges. These challenges can be recognized in many fields and systems which have a significant impact on our way of living: design, management and control of industrial production of goods and services; transportation planning and traffic management in urban and regional areas; energy production and exploitation; natural resources and environment protection; homeland security and critical infrastructure protection; development of advanced information and communication technologies. The chapters in this book examine how to deal with new and emerging practical problems arising in these different fields through the presented methodologies and their applications. The chapter topics are applicable for researchers and practitioners working in these areas, but also for the operations research community. The contributions were presented during the international conference "Optimization and Decision Science" (ODS2017), held at Hilton Sorrento Palace Conference Center, Sorrento, Italy, September 4 - 7, 2017. ODS 2017, was organized by AIRO, Italian Operations Research Society, in cooperation with DIETI (Department of Electrical Engineering and Information Technology) of University "Federico II" of Naples.

TRAITE DE CRYPTOGRAPHIE

NETWORK SECURITY ASSESSMENT

KNOW YOUR NETWORK

"O'Reilly Media, Inc." A practical handbook for network administrators who need to develop and implement security assessment programs, exploring a variety of offensive technologies, explaining how to design and deploy networks that are immune to offensive tools and scripts, and detailing an efficient testing model. Original. (Intermediate)

OPTIMIZATION AND DECISION SCIENCE

ODS, VIRTUAL CONFERENCE, NOVEMBER 19, 2020

Springer This book collects selected contributions from the international conference "Optimization and Decision Science" (ODS2020), which was held online on November 19, 2020, and organized by AIRO, the Italian Operations Research Society. The book offers new and original contributions on optimization, decisions science and prescriptive analytics from both a methodological and applied perspective, using models and methods based on continuous and discrete optimization, graph theory and network optimization, analytics, multiple criteria decision making, heuristics, metaheuristics, and exact methods. In addition to more theoretical contributions, the book chapters describe models and methods for addressing a wide diversity of real-world applications, spanning health, transportation, logistics,

public sector, manufacturing, and emergency management. Although the book is aimed primarily at researchers and PhD students in the Operations Research community, the interdisciplinary content makes it interesting for practitioners facing complex decision-making problems in the afore-mentioned areas, as well as for scholars and researchers from other disciplines, including artificial intelligence, computer sciences, economics, mathematics, and engineering.

ADOBE ILLUSTRATOR 9.0

Adobe Press Showcases the computer graphics program's updated features while demonstrating fundamental and advanced Illustrator concepts and displaying professionally designed projects.

RECENT ADVANCES IN EARTHQUAKE GEOTECHNICAL ENGINEERING AND MICROZONATION

Springer Science & Business Media Outstanding advances have been achieved on Earthquake Geotechnical Engineering and Microzonation in the last decade mostly due to the increase in the recorded instrumental in-situ data and large number of case studies conducted in analyzing the observed effects during the recent major earthquakes. During the 15th International Conference on Soil Mechanics and Geotechnical Engineering held in Istanbul in August 2001, the Technical Committee of Earthquake Geotechnical Engineering, (TC4) of the International Society of Soil Mechanics and Geotechnical Engineering organised a regional seminar on Geotechnical Earthquake Engineering and Microzonation where an effort has been made to present the recent advances in the field by eminent scientists and researchers. The book idea was first suggested by the participants of this seminar. The purpose of this book as well as of the seminar was to present the broad spectrum of earthquake geotechnical engineering and seismic microzonation including strong ground motion, site characterisation, site effects, liquefaction, seismic microzonation, solid waste landfills and foundation engineering. The subject matter requires multidisciplinary input from different fields of engineering seismology, soil dynamics, geotechnical and structural engineering. The chapters in this book are prepared by some of the distinguished lecturers who took part in the seminar supplemented with contributions of few distinguished experts in the field of earthquake geotechnical engineering. The editor would like to express his gratitude to all authors for their interest and efforts in preparing their manuscripts. Without their enthusiasm and support, it would not have been possible to complete this book.

HAZARDOUS MATERIAL SPILLS

A DOCUMENTATION AND ANALYSIS OF HISTORICAL DATA

LEARN ANDROID STUDIO

BUILD ANDROID APPS QUICKLY AND EFFECTIVELY

Apress Learn Android Studio covers Android Studio and its rich tools ecosystem, including Git and Gradle: this book covers how Android Studio works seamlessly with Git, for source control, and Gradle, a build and test tool. In addition, this book demonstrates how to develop/collaborate with remote Git web-hosting services such as GitHub and Bitbucket. Four complete Android projects accompany this volume and are available for download from a public Git repository. With this book, you learn the latest and most productive tools in the Android tools ecosystem, and the best practices for Android app development. You will be able to take away the labs' code as templates or frameworks to re-use and customize for your own similar apps. Android Studio is an intuitive, feature-rich, and extremely forgiving Integrated Development Environment (IDE). This IDE is more productive and easier to use for your Android app creations than Eclipse. With this book you will quickly master Android Studio and maximize your Android development time. Source code on the remote web-hosting service is targeted to the latest Android Studio release, version 1.2.

HANDBOOK OF REFLECTOR ANTENNAS AND FEED SYSTEMS VOLUME III: APPLICATIONS OF REFLECTORS

Artech House This is the first truly comprehensive and most up-to-date handbook available on modern reflector antennas and feed sources for diversified space and ground applications. There has never been such an all-encompassing reflector handbook in print, and no currently available title offers coverage of such recent research developments. The Handbook consists of three volumes. Volume III focuses on the range of reflector antenna applications, including space, terrestrial, and radar. The intent of this book volume is to provide practical applications and design information on reflector antennas used for several communications systems. This book covers recent developments of reflector antennas used for satellite communications, terrestrial communications, and remote sensing applications. New subjects are introduced for the first time, including satellite antennas, Terahertz antennas, PIM, multipaction, corona, deployable mesh reflector antennas, and mechanical aspects of reflector antennas. In addition, this book contains a separate topic on integrated feed assembly for reflector antennas covering analysis, design, fabrication, and test.

NODE COOKBOOK

DISCOVER SOLUTIONS, TECHNIQUES, AND BEST PRACTICES FOR SERVER-SIDE WEB DEVELOPMENT WITH NODE.JS 14, 4TH EDITION

Packt Publishing Ltd Discover practical recipes to get to grips with Node.js concepts and programming models for delivering a scalable server-side for your applications Key FeaturesImplement practical solutions for scaling, securing, and testing your Node.js web apps effectivelyBuild and deploy scalable microservices architecture with the power of Node.js 14Discover techniques for debugging and testing Node.js applicationsBook Description A key technology for building web applications and tooling, Node.js brings JavaScript to the server enabling full-stack development in a common language. This fourth edition of the Node Cookbook is updated with the latest Node.js features and the evolution of the Node.js framework ecosystems. This practical guide will help you to get started with creating, debugging, and deploying your Node.js applications and cover solutions to common problems, along with tips to avoid pitfalls. You'll become familiar with the Node.js development model by learning how to handle files and build simple web applications and then explore established and emerging Node.js web frameworks such as Express.js and Fastify. As you advance, you'll discover techniques for detecting problems in your applications, handling security concerns, and deploying your applications to the cloud. This recipe-based guide will help you to easily navigate through various core topics of server-side web application development with Node.js. By the end of this Node book, you'll be well-versed with core Node.js concepts and have gained the knowledge to start building performant and scalable Node.js applications. What you will learnUnderstand the Node.js asynchronous programming modelCreate simple Node.js applications using modules and web frameworksDevelop simple web applications using web frameworks such as Fastify and ExpressDiscover tips for testing, optimizing, and securing your web applicationsCreate and deploy Node.js microservicesDebug and diagnose issues in your Node.js applicationsWho this book is for The book is for web developers who have knowledge of JavaScript and want to gain a broad understanding of Node.js concepts for server-side development.

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ENTERPRISE JAVA MICROSERVICES

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CRITICAL PATH

HOW TO REVIEW VIDEOGAMES FOR A LIVING

Tripletorch It's your dream job: Playing video games. Writing about them. Getting paid. It will never happen, right? Actually, it can. It's definitely not easy to get this dream job-it requires a lot of perseverance, plenty of patience, a certain amount of skill, and a fair amount of luck. But with the right combination of elements, this job can be yours. Critical Path: How to Review Videogames for a Living will tell you what you need to know and what you need to do to make a run at this career, for real. This includes how to write compelling reviews, how to pitch yourself as a writer, how to tackle some tricky ethical quandaries, and yes, even how to get free games. Based on Dan Amrich's own experience as a game journalist for more than 15 years, it's advice that can serve you for your entire career, from press start to game over.

ITALIAN SHORT STORIES FOR BEGINNERS

9 CAPTIVATING SHORT STORIES TO LEARN ITALIAN AND EXPAND YOUR VOCABULARY WHILE HAVING FUN

Createspace Independent Publishing Platform **INTRODUCING: 9 Captivating Short Stories to Learn Italian (2ND Edition Updated & Expanded)** Are you bored of the traditional methods people tell you to use to learn Italian? Are you bored of all those dusty grammar books that pile up making everything look so hard? What if we told you there's a better, more enjoyable way to learn Italian and grow your vocabulary exponentially? Well, guess what? There is! The best way to learn Italian is by reading short stories. The problem? You might feel like you don't know where to start, or you may feel lost trying to read whatever pops up on the internet. And that's exactly why we created this book. **Short Stories + Foreign Language = Faster Learning** We know how difficult it may seem to learn a foreign language from scratch, let alone trying to put all that learning into practice. But what you might not realize is that it's fairly easy to fully incorporate the essentials of a language once you frame that learning into a certain context (for example, a short story). Short stories allow you to put what you've learned so far into practice, allowing you to expand your vocabulary quickly, make sense of ideas, understand new concepts, and overall get a better grasp of the Italian language. Short stories work because they eliminate the stress of forcing yourself to learn. Instead, when you read the 9 captivating short stories we've prepared for you, you will learn Italian without even realizing you're learning it! Your goal is to simply focus on a single story at a time (they only take a few minutes to read). The stories consist of multiple genres, including adventure, fantasy, mystery, romance, just to name a few. We wanted these stories to be fun, interesting, and appealing, motivating you to keep on reading to find out what happens next. That's the very best way to learn, don't you think? **BONUS: Vocabulary Lists, Multiple Choice Exercises & Summaries of Each Story** In this book you'll find a total of 9 short stories in Italian. Each story is divided into three chapters. You start by reading Chapter one, then you go to the Annex, and you'll find there a quick summary of what you just read, a vocabulary list, and several multiple choice exercises intended to help you forge a deeper understanding of the story as it goes. Once you're done with this section, you move on to Chapter 2, then Chapter 3, and then you move on to the next story. It's so easy and fun you won't believe it. **READ: Italian Short Stories For Beginners - 9 Captivating Short Stories to Learn Italian & Expand Your Vocabulary While Having Fun** "Italian Short Stories For Beginners" contains a multitude of vocabulary lists including words and phrases you can incorporate to grow your Italian vocabulary to unprecedented levels. We chose each of those words carefully, aiming to support the beginner and intermediate student alike. We are absolutely sure you will love all our stories, and we sincerely hope they help you learn Italian much, much faster. **How Will Your Italian Skills Improve?** You will learn new words without even realizing it. You will incorporate key phrases of the Italian language. You will understand how context affects the meaning of certain words. You will get a break from all those dusty Italian grammar books you own. You will have fun reading entertaining stories on multiple genres. You will get a chance to apply what you already know. Most importantly, you will get a better overall grasp of the Italian language, feeling more confident and secure with your abilities. Short stories are absolutely ideal to learn Italian while having fun. All you need to do is pick one from this book, and start reading. **What Are You Waiting For?** Get this book now and start learning Italian the fun way. Scroll to the top of the page and select the buy button.

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