

## Delphi Xe2 Foundations

Showing how to analyze a company's vulnerability and how to take a stand on the controversial ethical disclosure issue, this unique resource provides leading-edge technical information being utilized by the top network engineers, security auditors, programmers, and vulnerability assessors. The book provides a practical course of action for those who find themselves in a "disclosure decision" position.

Everything you need to know to design, code, and build amazing apps Xcode 4 is Apple's newest version of the popular development suite for creating bleeding-edge OS X and iOS apps. Written by an experienced developer and Apple-focused journalist, this book not only covers developing for OS X but also for the entire family of iOS devices, including the iPhone, iPad, and iPod touch. You'll explore the newest tools for compiling, debugging, and finding and fixing common code errors so that you can look forward to improved, smooth-running code that is developed more efficiently than ever. Takes you step-by-step through the process of developing OS X and iOS applications using Xcode 4 Examines the benefits of Xcode 4, Apple's updated, free, object oriented programming environment Helps you tame the complex Xcode environment so you can develop amazing apps This book gets you up to speed on all the remarkable new features and redesigned user interface of Xcode 4 so you can get started creating phenomenal apps today.

The ordinary becomes extraordinary in this sparkling first book in the Starfell series, a modern classic perfect for fans of Nevermoor and The Land of Stories. Willow Moss's small magic has always seemed unremarkable. But when the most feared witch in the land of Starfell appears

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on the Moss family's doorstep looking for help, it's not Willow's talented sisters she seeks, it's Willow. Because Willow is a finder of lost things—and Moreg Vaine says that last Tuesday has gone missing. Willow and Moreg set out on a perilous journey across the wilds of Starfell, looking for what they've lost. If they don't discover what happened to the missing day, the repercussions could be devastating for the entire kingdom. Can Willow find the day, to save the day?

This book is your guide to visual programming with Delphi and FireMonkey (FMX). FMX is a cross-platform application framework that helps you deliver modern applications with a Graphical User Interface (GUI). You will learn FMX's UI-related features and capabilities together with useful techniques to achieve a rich user experience (UX).

Use structural, behavioral, and concurrent patterns in Delphi to skillfully develop applications

**Key Features** Delve into the core patterns and components of Delphi to enhance your application's design

Learn how to select the right patterns to improve your program's efficiency and productivity

Discover how parallel programming and memory management can optimize your code

**Book Description** Delphi is a cross-platform Integrated Development Environment (IDE) that supports rapid application development for most operating systems, including Microsoft Windows, iOS, and now Linux with RAD Studio 10.2. If you know how to use the features of Delphi, you can easily create scalable applications in no time. This Learning Path begins by explaining how to find performance bottlenecks and apply the correct algorithm to fix them. You'll brush up on tricks, techniques, and best practices to solve common design and architectural challenges. Then, you'll see how to leverage external libraries to write better-performing programs. You'll also learn about the eight most important patterns that'll enable

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you to develop and improve the interface between items and harmonize shared memories within threads. As you progress, you'll also delve into improving the performance of your code and mastering cross-platform RTL improvements. By the end of this Learning Path, you'll be able to address common design problems and feel confident while building scalable projects. This Learning Path includes content from the following Packt products: Delphi High Performance by Primož Gabrijel?i? Hands-On Design Patterns with Delphi by Primož Gabrijel?i? What you will learn Understand parallel programming and work with the various tools included with Delphi Explore memory managers and their implementation Leverage external libraries to write better-performing programs Keep up to date with the latest additions and design techniques in Delphi Get to grips with various modern multithreading approaches Break a design problem down into its component parts Who this book is for This Learning Path is for intermediate-level Delphi programmers who want to build robust applications using Delphi features. Prior knowledge of Delphi is assumed.

Summary Concurrency in .NET teaches you how to build concurrent and scalable programs in .NET using the functional paradigm. This intermediate-level guide is aimed at developers, architects, and passionate computer programmers who are interested in writing code with improved speed and effectiveness by adopting a declarative and pain-free programming style. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Unlock the incredible performance built into your multi-processor machines. Concurrent applications run faster because they spread work across processor cores, performing several tasks at the same time. Modern tools and techniques on the .NET platform, including parallel LINQ, functional programming,

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asynchronous programming, and the Task Parallel Library, offer powerful alternatives to traditional thread-based concurrency. About the Book Concurrency in .NET teaches you to write code that delivers the speed you need for performance-sensitive applications. Featuring examples in both C# and F#, this book guides you through concurrent and parallel designs that emphasize functional programming in theory and practice. You'll start with the foundations of concurrency and master essential techniques and design practices to optimize code running on modern multiprocessor systems. What's Inside The most important concurrency abstractions Employing the agent programming model Implementing real-time event-stream processing Executing unbounded asynchronous operations Best concurrent practices and patterns that apply to all platforms About the Reader For readers skilled with C# or F#. About the Book Riccardo Terrell is a seasoned software engineer and Microsoft MVP who is passionate about functional programming. He has over 20 years' experience delivering cost-effective technology solutions in a competitive business environment. Table of Contents PART 1 - Benefits of functional programming applicable to concurrent programs Functional concurrency foundations Functional programming techniques for concurrency Functional data structures and immutability PART 2 - How to approach the different parts of a concurrent program The basics of processing big data: data parallelism, part 1 PLINQ and MapReduce: data parallelism, part 2 Real-time event streams: functional reactive programming Task-based functional parallelism Task asynchronicity for the win Asynchronous functional programming in F# Functional combinators for fluent concurrent programming Applying reactive programming everywhere with agents Parallel workflow and agent programming with TPL Dataflow PART 3 - Modern patterns of concurrent programming applied Recipes and design patterns for

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successful concurrent programming Building a scalable mobile app with concurrent functional programming

This new titles is an updated edition of "Tomes of Delphi: Win32 Graphical API", which received rave reviews from the industry. The new edition retains its reference organization and distinctive help file on the CD, as well as including Windows 2000 changes.

This book constitutes the full research papers and short monographs developed on the base of the refereed proceedings of the International Conference: Information and Communication Technologies for Research and Industry (ICIT 2020). The book brings accepted research papers which present mathematical modelling, innovative approaches and methods of solving problems in the sphere of control engineering and decision making for the various fields of studies: industry and research, energy efficiency and sustainability, ontology-based data simulation, theory and use of digital signal processing, cognitive systems, robotics, cybernetics, automation control theory, image and sound processing, image recognition, technologies, and computer vision. The book contains also several analytical reviews on using smart city technologies in Russia. The central audience of the book are researchers, industrial practitioners and students from the following areas: Adaptive Systems, Human–Robot Interaction, Artificial Intelligence, Smart City and Internet of Things, Information Systems, Mathematical Modelling, and the Information Sciences.

Become a developer superhero and build stunning cross-platform apps with Delphi About This Book A one-stop guide on Delphi to help you build cross-platform apps This book covers important concepts such as the FireMonkey

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library, shows you how to interact with the Internet of Things, and enables you to integrate with Cloud services The code is explained in detail with observations on how to create native apps for Ios and Android with a single code base Who This Book Is For If you want to create stunning applications for mobile, desktop, the cloud, and the Internet of Things, then this book is for you. This book is for developers who would like to build native cross-platform apps with a single codebase for iOS and Android. A basic knowledge of Delphi is assumed, although we do cover a primer on the language. What You Will Learn Understand the basics of Delphi and the FireMonkey application platform as well as the specifics of Android and iOS platforms Complete complex apps quickly with access to platform features and APIs using a single, easy-to-maintain code base Work with local data sources, including embedded SQL databases, REST servers, and Backend-as-a-Service providers Take full advantage of mobile hardware capabilities by working with sensors and Internet of Things gadgets and devices Integrate with cloud services and data using REST APIs and scalable multi-tier frameworks for outstanding multi-user and social experience Architect and deploy powerful mobile back-end services and get super-productive by leveraging Delphi IDE agile functionality Get to know the best practices for writing a high-quality, reliable, and maintainable codebase in the Delphi Object

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Pascal language In Detail Delphi is the most powerful Object Pascal IDE and component library for cross-platform native app development. It enables building natively compiled, blazingly fast apps for all major platforms including Android, iOS, Windows, Mac, and Linux. If you want to build server-side applications, create web services, and have clear GUIs for your project, then this book is for you. The book begins with a basic primer on Delphi helping you get accustomed to the IDE and the Object Pascal language and will then quickly move on to advanced-level concepts. Through this book, we'll help you understand the architecture of applications and will teach you the important concepts of the FireMonkey library, show you how to build server-side services, and enable you to interact with the Internet of Things. Towards the end, you will learn to integrate your app with various web services and deploy them. By the end of the book, you will be able to build powerful, cross-platform, native apps for iOS and Android with a single code base. Style and approach This book will help you build cross-platform mobile apps with Delphi using a step-by-step approach.

Still the Best Delphi Resource--Now Fully Updated and Expanded Whether you're new to Delphi or just making the move from an earlier version, Mastering Delphi 7 is the one resource you can't do without. Practical, tutorial-based coverage helps you master essential techniques in database, client-server, and

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Internet programming. And the insights of renowned authority Marco Cantù give you the necessary knowledge to take advantage of what's new to Delphi 7--particularly its support for .NET. Coverage includes:

- \* Creating visual web applications with IntraWeb
- \* Writing sockets-based applications with Indy
- \* Creating data-aware controls and custom dataset components
- \* Creating database applications using ClientDataSet and dbExpress
- \* Building client-server applications using InterBase
- \* Interfacing with Microsoft's ADO
- \* Programming for a multi-tiered application architecture
- \* Taking advantage of Delphi's support for COM, OLE Automation, and COM+
- \* Taking advantage of Delphi's XML and SOAP support
- \* Implementing Internet protocols in your Delphi app
- \* Creating UML class diagrams using ModelMaker
- \* Visually preparing reports using RAVE
- \* Using the Delphi language to create your first .NET programs

Build fast, scalable, and high performing applications with Delphi Key Features  
Build efficient and concurrent applications in Delphi with focused examples  
Identify performance bottlenecks and apply the correct algorithm to increase the performance of applications. Delve into parallel programming and memory management to optimize your code  
Book Description Delphi is a cross-platform Integrated Development Environment (IDE) that supports rapid application development for Microsoft Windows, Apple Mac OS X, Google Android, iOS, and

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now Linux with RAD Studio 10.2. This book will be your guide to build efficient high performance applications with Delphi. The book begins by explaining how to find performance bottlenecks and apply the correct algorithm to fix them. It will teach you how to improve your algorithms before taking you through parallel programming. You'll then explore various tools to build highly concurrent applications. After that, you'll delve into improving the performance of your code and master cross-platform RTL improvements. Finally, we'll go through memory management with Delphi and you'll see how to leverage several external libraries to write better performing programs. By the end of the book, you'll have the knowledge to create high performance applications with Delphi. What you will learn

- Find performance bottlenecks and easily mitigate them
- Discover different approaches to fix algorithms
- Understand parallel programming and work with various tools included with Delphi
- Master the RTL for code optimization
- Explore memory managers and their implementation
- Leverage external libraries to write better performing programs

Who this book is for This book is for Delphi developers who would like to build high performance applications with Delphi. Prior knowledge of Delphi is assumed.

Introducing programmers to all of Delphi 4's new features and techniques, this reference explores secrets of the environment, the programming language, the

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custom components, and Windows 95 programming in general. The CD-ROM contains Delphi third party products, advanced debuggers, code optimization tools, and ready-to-use ActiveX examples.

Energy Efficiency: Concepts and Calculations is the first book of its kind to provide an applied, systems oriented description of energy intensity and efficiency in modern economies across the entire energy chain. With an emphasis on analysis, specifically energy flow analysis, lifecycle energy accounting, economic analysis, technology evaluation, and policies/strategies for adopting high energy efficiency standards, the book provides a comprehensive understanding of the concepts, tools and methodologies for studying and modeling macro-level energy flows through, and within, key economic sectors (electric power, industrial, commercial, residential and transportation). Providing a technical discussion of the application of common methodologies (e.g. cost-benefit analysis and lifecycle assessment), each chapter contains figures, charts and examples from each sector, including the policies that have been put in place to promote and incentivize the adoption of energy efficient technologies. Contains models and tools to analyze each stage at the macro-level by tracking energy consumption and how the resulting data might change energy use Includes accessible references and a glossary of common terms at the end of each

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chapter Provides diagnostic figures, tables and schematics within the context of local, regional and national energy consumption and utilization

Delphi Component Design tells the inside story of how and why Delphi was built, and how to make use of this information to build better Delphi components and applications. Whether you're a Delphi application writer yearning to expand into component writing, or an experienced Delphi component writer in pursuit of the smaller, faster, better Holy Grail, Delphi Component Design will help you sort out what Delphi Visual Component Library (VCL) services can do for you (and how they do it); what your components can do for VCL; what standard behaviors your component classes must implement; and how to take advantage of little-known VCL classes and services to dramatically improve your component's ease of use, code reuse, flexibility, and performance. This is the no-stone-unturned authority on building advanced Delphi components - from high-level views of how a component fits into the grand scheme of things to the minute details of how each link between a component and the rest of the system works; from design-time support tools to run-time performance optimizations.

This new edition of *Introducing Delphi Programming: Theory through Practice* covers the basics of Delphi and includes features of Delphi 6,7 and 8. The book has been written for students taking first year course in Information Systems at

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universities and Institutes of Technology and is ideal for the independent, distance learner. It teaches students both the practical side of programming and important programming theory. Delphi is a versatile and sophisticated visual programming environment for rapid application development that allows the programmer to develop Windows and Linux programs easily and speedily. . Introducing Delphi Programming: Theory through Practice is considered to be the leading introductory text on computer programming. It allows students to gain confidence as they develop their skills in an interesting and practical way.

This book describes how a confused decision maker, who wishes to make a reasonable and responsible choice among alternatives, can systematically probe their thoughts and feelings in order to make the critically important trade-offs between incommensurable objectives.

Learn the fundamentals of Delphi to build a variety of solutions for many devices and platforms. Author Marco Breveglieri will provide you with an overview of Delphi, its principles, its environment, and its use of Object Pascal language so that you can harness its versatility. With Delphi, the power of Delphi is at your fingertips. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations

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and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

This book gathers the latest advances, innovations, and applications in the field of environmental and construction engineering, as presented by international researchers and engineers at the 2nd International Conference on Efficient Production and Processing, held on February 25-26, 2021. It covers highly diverse topics, including use of secondary raw materials in construction technologies; urban waste management logistics; use of recycled materials in road construction; safety and security in waste handling; food science and agriculture; waste and water treatment; and environmental economics. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

This book presents papers on various problems of dependability in computer systems and networks that were discussed at the 14th DepCoS-RELCOMEX conference, in Brunów, Poland, from 1st to 5th July 2019. Discussing new ideas, research results and developments in the design, implementation, maintenance and analysis of complex computer systems, it is of interest to researchers and practitioners who are dealing with dependability issues in such systems. Dependability analysis came as a response to

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new challenges in the evaluation of contemporary complex systems, which should be considered as systems of people – with their needs and behaviours –interacting with technical communication channels (such as mobile activities, iCloud, Internet of Everything) and online applications, often operating in hostile environments. The diversity of topics covered, illustrates the variety of methods used in this area, often with the help of the latest results in artificial and computational intelligence.

The Delphi Quick Syntax Reference is a succinct code and syntax reference guide to Delphi. It presents the fundamental knowledge to get newcomers started with the language and provides a refresher to seasoned or returning Delphi developers. It covers all the new features added by Embarcadero during the last few years. Delphi celebrates 25 years in 2020 and, alongside the free community version that was introduced a couple of years ago, this syntax guide is a great way to get into the language. What You Will Learn Quickly use and learn Delphi Compile, build and run a Delphi program Master Delphi strings, variables, constants, and operators and how to apply them Use conditions, loops, procedures, and functions in Delphi Apply object-oriented programming in Delphi Who This Book Is For Returning or current Delphi developers: The book is a resource for reference for this group of developers especially for the new features that were introduced in the language over the last couple of years. Newcomers to the language: These developers will learn the fundamentals of the language in a very condensed and effective text that accelerates learning.

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Learn to rapidly build and deploy cross-platform applications from a single codebase with practical, real-world solutions using the mature Delphi 10.4 programming environment

**Key Features** Implement Delphi's modern features to build professional-grade Windows, web, mobile, and IoT applications and powerful servers

**Become a Delphi code and project guru** by learning best practices and techniques for cross-platform development

**Deploy your complete end-to-end application suite anywhere**

**Book Description** Delphi is a strongly typed, event-driven programming language with a rich ecosystem of frameworks and support tools. It comes with an extensive set of web and database libraries for rapid application development on desktop, mobile, and internet-enabled devices. This book will help you keep up with the latest IDE features and provide a sound foundation of project management and recent language enhancements to take your productivity to the next level. You'll discover how simple it is to support popular mobile device features such as sensors, cameras, and GPS. The book will help you feel comfortable working with FireMonkey and styles and incorporating 3D user interfaces in new ways. As you advance, you'll be able to build cross-platform solutions that not only look native but also take advantage of a wide array of device capabilities. You'll also learn how to use embedded databases, such as SQLite and InterBase ToGo, synchronizing them with your own custom backend servers or modules using the powerful RAD Server engine. The book concludes by sharing tips for testing and deploying your end-to-end application suite for a smooth

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user experience. By the end of this book, you'll be able to deliver modern enterprise applications using Delphi confidently. What you will learn Discover the latest enhancements in the Delphi IDE Overcome the barriers that hold you back from embracing cross-platform development Become fluent with FireMonkey controls, styles, LiveBindings, and 3D objects Build Delphi packages to extend RAD Server or modularize your applications Use FireDAC to get quick and direct access to any data Leverage IoT technologies such as Bluetooth and Beacons and learn how to put your app on a Raspberry Pi Enable remote apps with backend servers on Windows and Linux through REST APIs Develop modules for IIS and Apache web servers Who this book is for This book is for Delphi developers interested in expanding their skillset beyond Windows programming by creating professional-grade applications on multiple platforms, including Windows, Mac, iOS, Android, and back-office servers. You'll also find this book useful if you're a developer looking to upgrade your knowledge of Delphi to keep up with the latest changes and enhancements in this powerful toolset. Some Delphi programming experience is necessary to make the most out of this book.

Multicriterion decision problems; Partial preference analysis and decision-aid: the fuzzy outranking relation concepts; A research project on multicriterion decision making; Use of vector optimization in multiobjective decision making; Trade-off analysis: the indifference and the preferred proportions approaches; Conjoint measurement: a brief survey; Multiattribute utilities in expected utility theory; A practical methodology of

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solving multicriterion problems with subjective criteria; On the elicitation of preference: descriptive and prescriptive considerations; A dynamic consumption model and optimization of utility functionals;

Delphi is a cross-platform IDE that supports rapid application development. Design Patterns gives a developer an array of use case scenarios to common problems, thus reducing the technical risk. This book will be your guide in building efficient and scalable projects utilizing all the design patterns available in Delphi.

Intended to refresh the basics of Delphi as well as advance your knowledge to the next level, it is assumed you will know RAD studio and the Object Pascal language.

However, if you are not an experienced RAD studio programmer this accessible guide will still develop those initial crucial skills.

Improve your Delphi programming skills by building robust applications for Android, iOS, and Windows platform Key Features Build responsive user interfaces (UIs) for desktop and mobile with FireMonkey Implement a microservices architecture using the Rapid Application Development(RAD) server Create clones of popular applications like Instagram and Facebook using Delphi 10.3 Book Description Delphi is a cross-platform programming language and software development kit that supports rapid application development for Microsoft Windows, Apple Mac OS X, Android, and iOS. With the help of seven practical projects, this book will guide you through the best practices, Delphi Run-Time Library (RTL) resources, and design patterns. Whether you use the Visual

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Component Library (VCL) or FireMonkey (FMX) framework, these design patterns will be implemented in the same way in Delphi, using Object Pascal. In the first few chapters, you will explore advanced features that will help you build rich applications using the same code base for both mobile and desktop projects. In addition to this, you'll learn how to implement microservice architecture in Delphi. As you get familiar with the various aspects of Delphi, you will no longer need to maintain source code for similar projects, program business rules on screens, or fill your forms with data access components. By the end of this book, you will have gained an understanding of the principles of clean code and become proficient in building robust and scalable applications in Delphi. What you will learn

- Get to grips with the advanced features of RTL
- Understand how to deal with the paradigm change between multiplatform projects
- Build rich interfaces with Google's Material Design features
- Understand how to implement design patterns in Delphi
- Turn a mobile device into a remote controller with app tethering technology
- Build a multi-database system using VCL

Who this book is for  
This book is for developers, programmers, and IT professionals who want to learn the best market practices by implementing practical projects. Prior knowledge of the Delphi language is a must.

The practical guide to simulating, detecting, and responding to network attacks

- Create step-by-step testing plans
- Learn to perform social engineering and host reconnaissance
- Evaluate session hijacking methods
- Exploit web server vulnerabilities
- Detect attempts

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to breach database security Use password crackers to obtain access information Circumvent Intrusion Prevention Systems (IPS) and firewall protections and disrupt the service of routers and switches Scan and penetrate wireless networks Understand the inner workings of Trojan Horses, viruses, and other backdoor applications Test UNIX, Microsoft, and Novell servers for vulnerabilities Learn the root cause of buffer overflows and how to prevent them Perform and prevent Denial of Service attacks Penetration testing is a growing field but there has yet to be a definitive resource that instructs ethical hackers on how to perform a penetration test with the ethics and responsibilities of testing in mind. Penetration Testing and Network Defense offers detailed steps on how to emulate an outside attacker in order to assess the security of a network. Unlike other books on hacking, this book is specifically geared towards penetration testing. It includes important information about liability issues and ethics as well as procedures and documentation. Using popular open-source and commercial applications, the book shows you how to perform a penetration test on an organization's network, from creating a test plan to performing social engineering and host reconnaissance to performing simulated attacks on both wired and wireless networks. Penetration Testing and Network Defense also goes a step further than other books on hacking, as it demonstrates how to detect an attack on a live network. By detailing the method of an attack and how to spot an attack on your network, this book better prepares you to guard against hackers. You will learn how to configure, record, and thwart these attacks

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and how to harden a system to protect it against future internal and external attacks. Full of real-world examples and step-by-step procedures, this book is both an enjoyable read and full of practical advice that will help you assess network security and develop a plan for locking down sensitive data and company resources. "This book goes to great lengths to explain the various testing approaches that are used today and gives excellent insight into how a responsible penetration testing specialist executes his trade." -Bruce Murphy, Vice President, World Wide Security Services, Cisco Systems

Quickly learn and employ practical recipes for developing real-world, cross-platform applications using Delphi. Key Features

- Get to grips with Delphi to build and deploy various cross-platform applications
- Design and deploy real-world apps by implementing a single source codebase
- Build robust and optimized GUI applications with ease

**Book Description** Delphi is a cross-platform integrated development environment (IDE) that supports rapid application development on different platforms, saving you the pain of wandering amid GUI widget details or having to tackle inter-platform incompatibilities. Delphi Cookbook begins with the basics of Delphi and gets you acquainted with JSON format strings, XSLT transformations, Unicode encodings, and various types of streams. You'll then move on to more advanced topics such as developing higher-order functions and using enumerators and run-time type information (RTTI). As you make your way through the chapters, you'll understand Delphi RTL functions, use FireMonkey in a VCL application, and cover topics such as multithreading, using

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aparallel programming library and deploying Delphi on a server. You'll take a look at the new feature of WebBroker Apache modules, join the mobile revolution with FireMonkey, and learn to build data-driven mobile user interfaces using the FireDAC database access framework. This book will also show you how to integrate your apps with Internet of Things (IoT). By the end of the book, you will have become proficient in Delphi by exploring its different aspects such as building cross-platforms and mobile applications, designing server-side programs, and integrating these programs with IoT. What you will learn Develop visually stunning applications using FireMonkey Deploy LiveBinding effectively with the right object-oriented programming (OOP) approach Create RESTful web services that run on Linux or Windows Build mobile apps that read data from a remote server efficiently Call platform native API on Android and iOS for an unpublished API Manage software customization by making better use of an extended RTTI Integrate your application with IOT Who this book is for Delphi Cookbook is for intermediate developers with a basic knowledge of Delphi who want to discover and understand all the development possibilities offered by it.

The SANS Institute maintains a list of the "Top 10 Software Vulnerabilities." At the current time, over half of these vulnerabilities are exploitable by Buffer Overflow attacks, making this class of attack one of the most common and most dangerous weapon used by malicious attackers. This is the first book specifically aimed at detecting, exploiting, and preventing the most common and dangerous attacks. Buffer

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overflows make up one of the largest collections of vulnerabilities in existence; And a large percentage of possible remote exploits are of the overflow variety. Almost all of the most devastating computer attacks to hit the Internet in recent years including SQL Slammer, Blaster, and I Love You attacks. If executed properly, an overflow vulnerability will allow an attacker to run arbitrary code on the victim's machine with the equivalent rights of whichever process was overflowed. This is often used to provide a remote shell onto the victim machine, which can be used for further exploitation. A buffer overflow is an unexpected behavior that exists in certain programming languages. This book provides specific, real code examples on exploiting buffer overflow attacks from a hacker's perspective and defending against these attacks for the software developer. Over half of the "SANS TOP 10 Software Vulnerabilities" are related to buffer overflows. None of the current-best selling software security books focus exclusively on buffer overflows. This book provides specific, real code examples on exploiting buffer overflow attacks from a hacker's perspective and defending against these attacks for the software developer.

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Description: This book is going to be the first well organized book for soft computing, including all the three major constituents or aspect of soft computing (neural networks, fuzzy logic and evolutionary computation), and hopefully will be proved beneficial for both kind of people; those striving to gain knowledge and those striving to score grades.

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The book is comprised of each and every topic of soft computing is a vast field of artificial intelligence with very much exploration to real time problems, especially regarding the quench of decision making and automation in the leading AI industries. Key Features: Comprehensive coverage of various aspects of soft computing concepts. Artificial intelligence, Neuro computing, Fuzzy logic Evolutionary computation. Strictly in accordance for the syllabus covered under UG, PG, and Doctoral courses. (B.E. / B. Tech./ MCA/ M. Tech/ Research Scholars) Simple language, crystal clear approach, straight forward comprehensible presentation. The concepts are duly supported by several examples. Important question papers for every chapters. Table of contents: Chapter 1: Introduction to Neuro-computing Chapter 2: Training the Neural networks Chapter 3: The unsupervised networks Chapter 4: The fuzzy logic Chapter 5: The Evolutionary computation Chapter 6: Few Auxiliary algorithms

The two volume set LNCS 11486 and 11487 constitutes the proceedings of the International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2019, held in Almería, Spain,, in June 2019. The total of 103 contributions was carefully reviewed and selected from 190 submissions during two rounds of reviewing and improvement. The papers are organized in two volumes, one on understanding the brain function and emotions, addressing topics such as new tools for analyzing neural data, or detection emotional states, or interfacing with physical systems. The second volume deals with bioinspired systems and biomedical

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applications to machine learning and contains papers related bioinspired programming strategies and all the contributions oriented to the computational solutions to engineering problems in different applications domains, as biomedical systems, or big data solutions.

Delphi XE2.  
Delphi XE2,   
(VCL),   
Windows ?  
Win API,   
FireMonkey,   
Microsoft Windows, ?? ? Mac OS X.   
ftp://ftp.bhv.ru/9785977508254.zip

Control of Power Electronic Converters, Volume Two gives the theory behind power electronic converter control and discusses the operation, modelling and control of basic converters. The main components of power electronics systems that produce a desired effect (energy conversion, robot motion, etc.) by controlling system variables (voltages and currents) are thoroughly covered. Both small (mobile phones, computer power supplies) and very large systems (trains, wind turbines, high voltage power lines) and their power ranges, from the Watt to the Gigawatt, are presented and explored. Users

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will find a focused resource on how to apply innovative control techniques for power converters and drives. Discusses different applications and their control Explains the most important controller design methods, both in analog and digital Describes different, but important, applications that can be used in future industrial products Covers voltage source converters in significant detail Demonstrates applications across a much broader context

0672324806.lId The definitive guide to the latest version of Borlands powerful C++Builder. Provides complete coverage of C++Builder Web Services development, now a key component of C++Builder. Borland C++Builder remains best in class IDE over the past 5 years for C++ solutions. Written by a team of top C++Builder experts with expertise in a variety of technical areas related to C++ application development. C++Builder 6 Developers Guide is revised for the latest version of C++Builder, the biggest update to C++Builder in years. C++Builder is an ANSI C++ IDE. The version 6 adds BizShape, a tool to build Web Services using XML/SOAP, .NET, and BizTalk from Microsoft, and SunONE from Sun Microsystems. Other new components include WebSnap for Web application development, DataSnap for database development, and CLX, which allows cross-platform development for Unix and Linux. The new NetCLX Internet components allow development of cross-platform applications with Apache, Microsoft IIS, and Netscape Web Server applications. C++Builder 6 Developers Guide continues as the definitive guide for Borlands C++Builder, providing a clear and concise

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reference for C++ developers. C++Builder Developers Guide is a unique combination of over 35 C++Builder experts from around the globe. This team brings hundreds of thousands of working hours in professional software development to the creation of this extensive work. Leading the team are Jarrod Hollingworth, Bob Swart, Mark Cashman, and Paul Gustavson. Jarrod is running Backslash (<http://www.backslash.com;au>), developing software applications for the Internet and key business sectors and working as a software development consultant. Bob (aka. Dr.Bob) is an internationally recognized UK Borland Connections member and an independent technical author, trainer, and consultant using C++Builder, Kylix, and Delphi based in The Netherlands. Mark Cashman is an independent C++ developer in the U.S. Paul Gustavson lives in Virginia and is a senior systems engineer for Synetics, Inc., a U.S.-based company providing knowledge management, systems engineering, and enterprise management services. In an embedded case study, the starting and end point is the comprehension of the case as a whole in its real-world context. However, in the course of analysis the case will be faceted either by different perspectives of inquiry or by several sub-units. The book presents different methodological approaches to organize this faceting process. It uses the power of the system approach in order to apply methods, which allow a scientific treatment of complex cases in a way that will be also acknowledged by the quantitative research community. The authors emphasize that a qualitative analysis starting from the real-world level is an indispensable part of case analysis. Thus the

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book bridges the gap between quantitative and qualitative approaches to complex problems when using the case study methodology.

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