

.NET

Joseph Mayo

**The .NET Developer's Guide to Directory Services Programming** Joe Kaplan,Ryan Dunn,2006-05-08 “If you have any interest in writing .NET programs using Active Directory or ADAM, this is the book you want to read.” —Joe Richards, Microsoft MVP, directory services Identity and Access Management are rapidly gaining importance as key areas of practice in the IT industry, and directory services provide the fundamental building blocks that enable them. For enterprise developers struggling to build directory-enabled .NET applications, The .NET Developer’s Guide to Directory Services Programming will come as a welcome aid. Microsoft MVPs Joe Kaplan and Ryan Dunn have written a practical introduction to programming directory services, using both versions 1.1 and 2.0 of the .NET Framework. The extensive examples in the book are in C#; a companion Web site includes both C# and Visual Basic source code and examples. Readers will Learn to create, rename, update, and delete objects in Active Directory and ADAM Learn to bind to and search directories effectively and efficiently Learn to read and write attributes of all types in the directory Learn to use directory services within ASP.NET applications Get concrete examples of common programming tasks such as managing Active Directory and ADAM users and groups, and performing authentication Experienced .NET developers—those building enterprise applications or simply interested in learning about directory services—will find that The .NET Developer’s Guide to Directory Services Programming unravels the complexities and helps them to avoid the common pitfalls that developers face.

**.NET Core in Action** Dustin Metzgar,2018-07-12 Summary .NET Core in Action shows .NET developers how to build professional software applications with .NET Core. Learn how to convert existing .NET code to work on multiple platforms or how to start new projects with knowledge of the tools and capabilities of .NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology .NET Core is an open source framework that lets you write and run .NET applications on Linux and Mac, without giving up on Windows. Built for everything from lightweight web apps to industrial-strength distributed systems, it's perfect for deploying .NET servers to any cloud platform, including AWS and GCP. About the Book .NET Core in Action introduces you to cross-platform development with .NET Core. This hands-on guide concentrates on new Core features as you walk through familiar tasks like testing, logging, data access, and networking. As you go, you'll explore modern architectures like microservices and cloud data storage, along with practical matters like performance profiling, localization, and signing assemblies. What's Inside Choosing the right tools Testing, profiling, and debugging Interacting with web services Converting existing projects to .NET Core Creating and using NuGet packages About the Reader All examples are in C#. About the Author Dustin Metzgar is a seasoned developer and architect involved in numerous .NET Core projects. Dustin works for Microsoft. Table of Contents Why .NET Core? Building your first .NET Core applications How to build with .NET Core Unit testing with xUnit Working with relational databases Simplify data access with object-relational mappers Creating a microservice Debugging Performance and profiling Building world-ready applications Multiple frameworks and runtimes Preparing for release appendix A - Frameworks and runtimes appendix B - xUnit command-line options appendix C - What's in the .NET Standard Library? appendix D - NuGet cache locations

**C# 3.0 Unleashed** Joseph Mayo,2008-07-23 Whether you need an approachable on-ramp to .NET or you want to enhance your skills, C# 3.0 Unleashed is a comprehensive, in-depth guide to the solutions you seek. You’ll learn to do more with the new tools that are available, including Visual Studio 2008 and the .NET Framework Class Libraries. Throughout this book, you’ll get a practical look at what can be the most useful tools for any given task. You’ll also learn common traps to avoid and learn insightful tips that will save you time and help you be more productive. C# 3.0 Unleashed contains complete coverage of the C# programming language. The author covers all the essential syntax, but keeps the focus on practical application. The chapters are arranged to take you step-by-step from the core of the C# language to elements of the .NET Framework, and further into advanced concepts on distributed n-tier Internet applications. Additionally, C# 3.0 Unleashed shows you how to debug, monitor, and scale enterprise applications, enabling you to use the C# programming language to ship the right code at the right time. What’s included in this book: A complete reference for C# syntax, object oriented programming, and component programming with C# Comprehensive data coverage through ADO.NET and LINQ An introduction to UI technologies, including Windows Forms, WPF, ASP.NET Ajax, and Silverlight Coverage of traditional ASMX and WCF Web Services Coverage of multiple .NET technologies, including networking, instrumentation, interop, and multi-threading In-depth discussion of platform concepts including CLR, Garbage Collection, Type System, Assemblies, and Code Access Security Guidance on design and architecture for a big-picture view and essential help in piecing together all you’ve learned

**Deep Learning with C#, .Net and Kelp.Net** Matt R. Cole,2019-05-14 Get hands on with Kelp.Net , Microsoft’s latest Deep Learning framework Key Features Deep Learning Basics The ultimate Kelp.Net reference guide Develop state of the art deep learning applications C# Deep Learning code Develop advanced deep learning models with minimal code Develop your own advanced Deep Learning models Loading and Saving Deep Learning Models Comprehensive Kelp.Net reference Sample Deep Learning Models and Tests OpenCL Reference Easily add deep learning to your applications Many sample models and tests Intuitive and user friendly Description Deep Learning with Kelp.Net is the ultimate reference for C# .Net developers who are passionate about deep learning. Readers will learn all the skills necessary to develop powerful, scalable and flexible deep learning models from a fluid and easy to use API. Upon completing the book the reader will have all the tools necessary to add powerful deep learning capabilities to their new or existing applications. What you will learn In-depth knowledge of Kelp.Net How to develop Deep Learning models C# Deep Learning programming Open-Computing Language (OpenCL) Loading and saving Deep Learning models How to develop and use activation functions How to test Deep Learning models Who This Book is For This book targets C# .Net developers who are passionate about deep learning yet want to do so from an easy and intuitive API. Table of Contents Introduction ML/DL Terms and Concepts Deep Instrumentation Kelp.Net Reference Loading and Saving Models Model Testing and Training Sample Deep Learning Tests Creating Your Own Deep Learning Tests Appendix A: Evaluation Metrics Appendix B: OpenCL About the Author Matt R. Cole is a seasoned developer and published author with over 30 years’ experience in Microsoft Windows, C, C++, C# and .Net. He is the owner of Evolved AI Solutions, a premier provider of advanced Machine Learning/Bio-AI technologies. He developed the first enterprise grade MicroService framework written completely in C# and .Net, which is used in production by a major hedge fund in NYC. He also developed the first Bio Artificial Intelligence framework which completely integrates mirror and canonical neurons. He continues to push the limits of Machine Learning, Biological Artificial Intelligence, Deep Learning and MicroServices. In his spare time Matt loves to continue his education and contribute to open source efforts such as Kelp.Net. His Website: [www.evolvedaisolutions.com](http://www.evolvedaisolutions.com) His LinkedIn Profile: [www.linkedin.com/in/evolvedai/](http://www.linkedin.com/in/evolvedai/) His Blog: [www.evolvedaisolutions.com/blog.html](http://www.evolvedaisolutions.com/blog.html)

**Distributed .NET Programming in C#** Tom Barnaby,2002-05-29 Barnaby describes how to use the new .NET technologies to build fast, scalable, and robust distributed applications.

**Programming .NET Components** Juval Löwy,2003 The introduction of the Microsoft® .NET framework not only brings developers a powerful, cohesive toolset for the development of new Windows and Web applications -- it also replaces COM as the technology of choice for building components on Windows platforms. Components are the fundamental building blocks of .NET applications; they can both simplify and add flexibility to complex applications. Applied properly, component-oriented programming enable reuse, allow for long-term maintenance, application extensibility and scalability. Component technology is nothing new, but the .NET Framework offers developers a new way to develop binary components rapidly, without the hurdles that many COM developers have had to deal with prior to .NET. While retaining all of the core concepts that define component-oriented development--language independence, separation of interface from implementation, binary compatibility, versioning, concurrency management, location transparency, security,

deployment--.NET is built upon a fresh component-oriented runtime that has an easier time providing these core concepts. Programming .NET Components offers a complete introduction to the new Microsoft .NET component model, focusing on the aspects of .NET that make it ideal for building reusable, maintainable, and robust components. Author Juval Löwy, a noted authority on component-oriented programming, teaches the intricacies of .NET component programming and the related system issues to application developers, along with relevant design guidelines, tips, best practices, and known pitfalls. The book is packed with helpful original utilities aimed at simplifying the programming model and increasing the developer productivity. The book begins with an appreciation for the why and fundamentals of component-oriented programming, and then continues with an introduction to .NET essentials. Following practical, expert advice on effective .NET development techniques, the book then devotes a chapter to each of the following features critical to component development: Resource management Versioning Events Asynchronous calls Multithreading Serialization Remoting Component services Security. Programming .NET Components offers everything you'll need to know to program components for real-life .NET applications, using Windows Forms, ASP.NET, ADO.NET, or web services. Anyone interested in developing .NET applications, especially enterprise level, will find this book an invaluable resource.

**.NET Design Patterns** Praseed Pai,Shine Xavier,2017-01-31 Explore the world of .NET design patterns and bring the benefits that the right patterns can offer to your toolkit today About This Book Dive into the powerful fundamentals of .NET framework for software development The code is explained piece by piece and the application of the pattern is also showcased. This fast-paced guide shows you how to implement the patterns into your existing applications Who This Book Is For This book is for those with familiarity with .NET development who would like to take their skills to the next level and be in the driver's seat when it comes to modern development techniques. Basic object-oriented C# programming experience and an elementary familiarity with the .NET framework library is required. What You Will Learn Put patterns and pattern catalogs into the right perspective Apply patterns for software development under C#/.NET Use GoF and other patterns in real-life development scenarios Be able to enrich your design vocabulary and well articulate your design thoughts Leverage object/functional programming by mixing OOP and FP Understand the reactive programming model using Rx and RxJs Writing compositional code using C# LINQ constructs Be able to implement concurrent/parallel programming techniques using idioms under .NET Avoiding pitfalls when creating compositional, readable, and maintainable code using imperative, functional, and reactive code. In Detail Knowing about design patterns enables developers to improve their code base, promoting code reuse and making their design more robust. This book focuses on the practical aspects of programming in .NET. You will learn about some of the relevant design patterns (and their application) that are most widely used. We start with classic object-oriented programming (OOP) techniques, evaluate parallel programming and concurrency models, enhance implementations by mixing OOP and functional programming, and finally to the reactive programming model where functional programming and OOP are used in synergy to write better code. Throughout this book, we'll show you how to deal with architecture/design techniques, GoF patterns, relevant patterns from other catalogs, functional programming, and reactive programming techniques. After reading this book, you will be able to convincingly leverage these design patterns (factory pattern, builder pattern, prototype pattern, adapter pattern, facade pattern, decorator pattern, observer pattern and so on) for your programs. You will also be able to write fluid functional code in .NET that would leverage concurrency and parallelism! Style and approach This tutorial-based book takes a step-by-step approach. It covers the major patterns and explains them in a detailed manner along with code examples.

C# 11 and .NET 7 - Modern Cross-Platform Development Fundamentals Mark J. Price,2022-11-08 Publisher's Note: Microsoft will stop supporting .NET 7 from May 2024. The newer 8th edition of the book is available that covers .NET 8 (end-of-life November 2026) with C# 12 and EF Core. Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the newest additions to C# 11, the .NET 7 class libraries, and Entity Framework Core 7 Create professional websites and services with ASP.NET Core 7 and Blazor Build your confidence with step-by-step code examples and tips for best practices Book DescriptionExtensively revised to accommodate the latest features that come with C# 11 and .NET 7, this latest edition of our guide will get you coding in C# with confidence. You'll learn object-oriented programming, writing, testing, and debugging functions, implementing interfaces, and inheriting classes. Next, you'll take on .NET APIs for performing tasks like managing and querying data, working with the filesystem, and serialization. As you progress, you'll also explore examples of cross-platform projects you can build and deploy, such as websites and services using ASP.NET Core. Instead of distracting you with unnecessary graphical user interface code, the first eleven chapters will teach you about C# language constructs and many of the .NET libraries through simple console applications. Having mastered the basics, you'll then start building websites, web services, and browser apps. By the end of this book, you'll be able to create rich web experiences and have a solid grasp of object-oriented programming that you can build upon.What you will learn Build rich web experiences using Blazor, Razor Pages, the Model-View-Controller (MVC) pattern, and other features of ASP.NET Core Write, test, and debug functions Query and manipulate data using LINQ Integrate and update databases in your apps using Entity Framework Core models Build and consume powerful services using the latest technologies, including Web API and Minimal API For .NET 6 developers: C# 11 can be used with .NET 6, including features like raw string literals EF Core 7 targets .NET 6, so you can benefit from its new features like ExecuteUpdate and ExecuteDelete for more efficient data modifications Who this book is forThis book is primarily for beginners, but intermediate-level C# and .NET programmers who have worked with C# in the past and want to catch up with the changes made in the past few years will also find plenty of useful information in it. Prior exposure to C# or .NET is not a prerequisite, but you should have a general understanding of programming before you jump in. If you already have some C# and .NET skills and want to focus on developing apps, we recommend that you pick up Mark's other .NET book, Apps and Services with .NET 7, instead.

Pro .NET Performance Sasha Goldshtein,Dima Zurbalev,SELA Group,Ido Flatow,2012-10-22 Maximizing the performance of your algorithms and applications is extremely important and can give you a competitive advantage, a lower cost of ownership, and happier users. Pro .NET Performance explains the internals of Windows, the CLR, and the physical hardware that affect the performance of your applications, and gives you the knowledge and tools to measure how your code performs in isolation from external factors. The book is full of C# code samples and tips to help you squeeze every bit of juice from your application—lower memory utilization, consistent CPU usage, and fewer I/O operations across the network and disk. Pro .NET Performance will change the way you think about .NET application development. Guides you through performance measurement with a variety of profilers and other tools Explains how OS and CLR internals affect your application's performance in unexpected ways Provides you with tips and real-life case studies for improving application performance

**Mobile .NET** Derek Ferguson,2008-01-01 Mobile .NET begins by examining a wide variety of different wireless Internet devices. These devices are divided into two main divisions: those that are directly supported by .NET (Pocket PCs, i-Mode phones, and WAP devices) and those that are not (Palm OS and J2ME-powered devices). By the end of this book, you'll be able to make .NET work equally well with all of the devices. In the middle section of the book, the advantages of .NET as a development platform are first introduced. You'll produce a .NET web application capable of serving up stock quotes to virtually any wireless device as an exercise, building on it chapter by chapter. The section concludes with a demonstration of how you can invoke .NET Web services, the cornerstone of Microsoft's new programmable Internet, from each of the wireless devices mentioned previously. Mobile .NET concludes by drilling deep down into the technologies provided by .NET specifically for use with wireless devices. The Mobile Internet Toolkit, which can automatically adapt the output of a .NET web application based upon the special needs of differing client devices, is discussed first. Next, Microsoft's mobile data strategy and the main technologies underlying it, SQL Server (CE and desktop versions), XML, and

ADO.NET, are discussed. Finally, in a special technology sneak preview, author Derek Ferguson unveils Microsoft's mobile .NET technology, which brings the power of .NET development directly to handheld devices: the .NET Compact Framework.

**Visual Studio .NET** Julian Templeman, David Vitter, 2002-01 The Visual Studio .NET Black Book covers the .NET architecture, libraries, and services, and how to use them from the programming languages supported by VS.NET. This unique book explores the .NET architecture in a non-language specific way. It covers the new Web and database access technologies in WebForms, WinForms, ADO.NET, and ASP.NET. It also includes an emphasis on XML, including the SOAP protocol, as it will be used extensively for passing data around components within distributed applications.

**.Net Framework and Programming in ASP.NET** Priyanka Agarwal, 2019-02-01 The book has been written keeping in mind the general weakness in understanding the fundamental concepts of the topics. The book is self-explanatory and is based on question-answer pattern. This book covers Genesis of .Net – Features of .Net – .Net binaries – Microsoft Intermediate Language – Meta Data – .Net types and .net name spaces – Common Language Runtime – Common Type System – Common Language Specification – .Net Applications using command line compiler and visual studio .net IDE. Basics and Advance Concepts of ASP.Net includes Creating and deploying ASP .NET applications – Web forms – Web controls – Rich web controls – Custom web controls – Validation controls – Debugging ASP .NET pages – ASP .NET configuration – Business objects – HTTP Handlers – Caching in ASP .NET – ASP .NET security .NET applications. The book also deals with Web Services – Web services Infrastructure – SOAP – Building a web service – Deploying and publishing web services – Finding web services – Consuming web services. Basics of ADO .NET – Changes from ADO – Data Table – Data Views – Data Set – OLEDB and SQL ManagedProviders – OleDb Data Adapter Type.

**Exploring the .NET Core 3.0 Runtime** Roger Villela, 2019-09-06 Explore advanced .NET APIs and create a basic .NET core library with dynamic code generation and metadata inspection to be used by other libraries or client applications. This book starts with the benefits of .NET including its fundamental tasks and tools where you will learn .NET SDK tools and the ILDasm tool. This is followed by a detailed discussion on code generation in .NET API programming. Along the way, you will learn how to build a programming model through a code-generator tool and metadata inspector tool using .NET version information for .NET assembly and binary code. Exploring the .NET Core 3.0 Runtime covers the features of Microsoft Visual Studio 2019 using a tutorial and shows you how to create a .NET Core 3.0 application. Here you will configure and deploy your .NET projects along with meta packages and see some do's and don'ts. Finally, you will compare the features of .NET Core 3.0 with the .NET Framework library and its GUI frameworks. After reading this book, you will be able to work in a .NET 3.0 environment and program for its two advanced features: code generation and metadata inspection. What You Will Learn Understand the inner workings of an assembly's structural organization Work with reflection through the .NET Core platform Carry out dynamic code generation using the .NET Core API's code document model (CodeDOM) Use the metadata mechanism of the .NET Core platform Who This Book Is For Software developers and engineers using .NET and/or the .NET Core platform and tools.

**Programming Perl in the .NET Environment** Yevgeny Menaker, Michael Saltzman, Robert J. Oberg, 2003 A practical introduction to programming in Perl utilizing the rich capabilities of Perl and the services provided by .NET.

**Beginning VB.NET** Richard Blair, Jonathan Crossland, Matthew Reynolds, Thearon Willis, 2004-08-18 What is this book about? Visual Basic .NET is the latest version of the most widely used programming language in the world, popular with professional developers and complete beginners alike. This book will teach you Visual Basic .NET from first principles. You'll quickly and easily learn how to write Visual Basic .NET code and create attractive windows and forms for the users of your applications. To get you started on the road to professional development, you'll also learn about object-oriented programming, creating your own controls, working with databases, creating menus, and working with graphics. This second edition has been thoroughly tested on the full release version of .NET. The book is written in the proven Wrox beginning style with clear explanations and plenty of code samples. Every new concept is explained thoroughly with Try It Out examples and there are end-of-chapter questions to test yourself. What does this book cover? In this book, you will learn how to Install Visual Basic .NET Write Visual Basic .NET code Understand what the .NET Framework is and why it's important Control the flow through your application with loops and branching structures Create useful windows and screens Create your own menus Gain a complete understanding of object-oriented programming Work with graphics Create your own controls Access databases with ADO.NET Create applications for the Web Who is this book for? This book is aimed at readers who wish to learn to program using Visual Basic .NET. It assumes you have no prior experience of programming, but moves at a fast enough pace to be interesting if you have programmed in another language.

**Pro C# 5.0 and the .NET 4.5 Framework** Andrew Troelsen, 2012-08-27 This new edition of Pro C# 5.0 and the .NET 4.5 Platform has been completely revised and rewritten to reflect the latest changes to the C# language specification and new advances in the .NET Framework. You'll find new chapters covering all the important new features that make .NET 4.5 the most comprehensive release yet, including: .NET APIs for Windows 8 style UI apps New asynchronous task-based model for async operations How HTML5 support is being wrapped into C# web applications New programming interfaces for HTTP applications, including improved IPv6 support Expanded WPF, WCF and WF libraries giving C# more power than ever before This comes on top of award winning coverage of core C# features, both old and new, that have made the previous editions of this book so popular (you'll find everything from generics to pLINQ covered here). The mission of this text is to provide you with a rock-solid foundation in the C# programming language and the core aspects of the .NET platform (assemblies, remoting, Windows Forms, Web Forms, ADO.NET, XML web services, etc.). Once you digest the information presented in these 25 chapters, you'll be in a perfect position to apply this knowledge to your specific programming assignments, and you'll be well equipped to explore the .NET universe on your own terms.

**ADO.NET in a Nutshell** Bill Hamilton, Matthew MacDonald, 2003-04-25 Written by experts on the Microsoft® .NET programming platform, ADO.NET in a Nutshell delivers everything .NET programmers will need to get a jump-start on ADO.NET technology or to sharpen their skills even further. In the tradition of O'Reilly's In a Nutshell Series, ADO.NET in a Nutshell is the most complete and concise source of ADO.NET information available. ADO.NET is the suite of data access technologies in the .NET Framework that developers use to build applications services accessing relational data and XML. Connecting to databases is a fundamental part of most applications, whether they are web, Windows®, distributed, client/server, XML Web Services, or something entirely different. But ADO.NET is substantially different from Microsoft's previous data access technologies--including the previous version of ADO--so even experienced developers need to understand the basics of the new disconnected model before they start programming with it. Current with the .NET Framework 1.1, ADO.NET in a Nutshell offers one place to look when you need help with anything related to this essential technology, including a reference to the ADO.NET namespaces and object model. In addition to being a valuable reference, this book provides a concise foundation for programming with ADO.NET and covers a variety of issues that programmers face when developing web applications or Web Services that rely on database access. Using C#, this book presents real world, practical examples that will help you put ADO.NET to work immediately. Topics covered in the book include: An Introduction to ADO.NET Connections, Commands and DataReaders Disconnected Data Advanced DataSets Transactions DataViews and Data Binding XML and the DataSet Included with the book is a Visual Studio .NET add-in that integrates the entire reference directly into your help files. When combining ADO.NET in a Nutshell with other books from O'Reilly's .NET In a Nutshell series, you'll have a comprehensive, detailed and independent reference collection that will help you become more productive.

**Metaprogramming in .NET** Jason Bock, Kevin Hazzard, 2012-12-30 Summary Metaprogramming in .NET is designed to help readers understand the basic concepts, advantages, and potential pitfalls of metaprogramming. It introduces core concepts in clear, easy-to-

follow language and then it takes you on a deep dive into the tools and techniques you'll use to implement them in your .NET code. You'll explore plenty of real-world examples that reinforce key concepts. When you finish, you'll be able to build high-performance, metaprogramming-enabled software with confidence. About the Technology When you write programs that create or modify other programs, you are metaprogramming. In .NET, you can use reflection as well as newer concepts like code generation and scriptable software. The emerging Roslyn project exposes the .NET compiler as an interactive API, allowing compile-time code analysis and just-in-time refactoring. About this Book Metaprogramming in .NET is a practical introduction to the use of metaprogramming to improve the performance and maintainability of your code. This book avoids abstract theory and instead teaches you solid practices you'll find useful immediately. It introduces core concepts like code generation and application composition in clear, easy-to-follow language. Written for readers comfortable with C# and the .NET framework—no prior experience with metaprogramming is required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Metaprogramming concepts in plain language Creating scriptable software Code generation techniques The Dynamic Language Runtime About the Authors Kevin Hazzard is a Microsoft MVP, consultant, teacher, and developer community leader in the mid-Atlantic USA. Jason Bock is an author, Microsoft MVP, and the leader of the Twin Cities Code Camp. An excellent way to start fully using the power of metaprogramming.—From the Foreword by Rockford Lhotka, Creator of the CSLA .NET Framework Table of Contents PART 1 DEMYSTIFYING METAPROGRAMMING Metaprogramming concepts Exploring code and metadata with reflection PART 2 TECHNIQUES FOR GENERATING CODE The Text Template Transformation Toolkit (T4) Generating code with the CodeDOM Generating code with Reflection.Emit Generating code with expressions Generating code with IL rewriting PART 3 LANGUAGES AND TOOLS The Dynamic Language Runtime Languages and tools Managing the .NET Compiler

*ADO.NET Cookbook* Bill Hamilton,2003 Designed in the highly regarded O'Reilly Cookbook format, ADO.NET Cookbook is strikingly different from other books on the subject. It isn't bogged down with pages of didactic theory. The ADO.NET Cookbook focuses exclusively on providing developers with easy-to-find coding solutions to real problems.ADO.NET Cookbook is a comprehensive collection of over 150 solutions and best practices for everyday dilemmas. For each problem addressed in the book, there's a solution--a short, focused piece of code that programmers can insert directly into their applications.And ADO.NET Cookbook is more than just a handy compilation of cut-and-paste C# and VB.NET code. ADO.NET Cookbook offers clear explanations of how and why the code works, warns of potential pitfalls, and directs you to sources of additional information, so you can learn to adapt the problem-solving techniques to different situations. This is a painless way for developers who prefer to learn by doing to expand their skills and productivity, while solving the pressing problems they face every day.These time-saving recipes include vital topics like connecting to data, retrieving and managing data, transforming and analyzing data, modifying data, binding data to .NET user interfaces, optimizing .NET data access, enumerating and maintaining database objects, and maintaining database integrity.The diverse solutions presented here will prove invaluable over and over again, for ADO.NET programmers at all levels, from the relatively inexperienced to the most sophisticated.

Oracle Database Programming with Visual Basic.NET Ying Bai,2021-04-30 Oracle Database Programming with Visual Basic.NET Discover a detailed treatment of the practical considerations and applications of Oracle database programming with Visual Basic 2019 Oracle Database Programming with Visual Basic.NET: Concepts, Designs, and Implementations delivers a comprehensive exploration of the foundations of Oracle database programming using Visual Basic.NET. Using Visual Basic.NET 2019, Visual Studio.NET 2019, and Oracle 18c XE, the book introduces the Oracle database development system, Oracle SQL Developer and Modeler, and teaches readers how to implement a sample database solution. The distinguished author also demonstrates the use of dotConnect for Oracle to show readers how to create an effective connection to an Oracle 18c XE database. The current versions of the .NET framework, ASP.NET, and ASP.NET 4.7 are also explored and used to offer readers the most up to date web database programming techniques available today. The book provides practical example projects and detailed, line-by-line descriptions throughout to assist readers in the development of their database programming skill. Students will also benefit from the inclusion of: A thorough introduction to databases, including definitions, examples, descriptions of keys and relationships, and some database components in popular databases, like Access, SQL, and Oracle An exploration of ADO.NET, including its architecture and components, like the DataReader class, DataSet component, DataTable component, and the command and parameter classes A discussion of Language Integrated Query (LINQ), including its architecture and components, its relationship to objects, DataSet, Oracle, and Entities An explanation of how to access data in ASP.NET and ASP.NET Web Services with multiple real project examples. Perfect for college and university students taking courses related to database programming and applications, Oracle Database Programming with Visual Basic.NET will also earn a place in the libraries of programmers and software engineers seeking a comprehensive reference for database coding in Visual Basic.NET.

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## .NET Introduction

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