

## Programming Wcf Services Design And Build Maintainable Service Oriented Systems

'Programming .NET Components', second edition, updated to cover .NET 2.0., introduces the Microsoft .NET Framework for building components on Windows platforms. From its many lessons, tips, and guidelines, readers will learn how to use the .NET Framework to program reusable, maintainable, and robust components.

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,

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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

Summary Dependency Injection Principles, Practices, and Patterns teaches you to use DI to reduce hard-coded dependencies between application components. You'll start by learning what DI is and what types of applications will benefit from it. Then, you'll work through concrete scenarios using C# and the .NET framework to implement DI in your own projects. As you dive into the thoroughly-explained examples, you'll develop a foundation you can apply to any of the many DI libraries for .NET and .NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Dependency Injection (DI) is a great way to reduce tight coupling between software components. Instead of hard-coding dependencies, such as specifying a database driver, you make those connections through a third party. Central to application frameworks like ASP.NET Core, DI

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enables you to better manage changes and other complexity in your software. About the Book Dependency Injection Principles, Practices, and Patterns is a revised and expanded edition of the bestselling classic Dependency Injection in .NET. It teaches you DI from the ground up, featuring relevant examples, patterns, and anti-patterns for creating loosely coupled, well-structured applications. The well-annotated code and diagrams use C# examples to illustrate principles that work flawlessly with modern object-oriented languages and DI libraries. What's Inside Refactoring existing code into loosely coupled code DI techniques that work with statically typed OO languages Integration with common .NET frameworks Updated examples illustrating DI in .NET Core About the Reader For intermediate OO developers. About the Authors Mark Seemann is a programmer, software architect, and speaker who has been working with software since 1995, including six years with Microsoft. Steven van Deursen is a seasoned .NET developer and architect, and the author and maintainer of the Simple Injector DI library. Table of Contents PART 1 Putting Dependency Injection on the map The basics of Dependency Injection: What, why, and how Writing tightly coupled code Writing loosely coupled code PART 2 Catalog DI patterns DI anti-patterns Code smells PART 3 Pure DI Application composition Object lifetime Interception Aspect-Oriented Programming by design Tool-based Aspect-Oriented Programming PART 4 DI Containers DI Container introduction The Autofac DI Container The Simple Injector DI Container The Microsoft.Extensions.DependencyInjection DI Container Offering the deep architectural insights you need for building service-oriented applications, this

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guide by Microsoft trainer Justin Smith delivers hands-on guidance and plenty of code samples to help you master the intricacies of developing and implementing connected applications.

Windows Communication Foundation 4 Step by Step

Programming WCF Services

Microsoft Silverlight 4 Data and Services Cookbook

Tackling Complexity in the Heart of Software

Framework Design Guidelines

Design and Build .NET Applications Using Component-Oriented Programming

This is the eBook version of the print title, Framework Design Guidelines, Second Edition . Access to all the samples, applications, and content on the DVD is available through the product catalog page [www.informit.com/title/9780321545619](http://www.informit.com/title/9780321545619) Navigate to the “Downloads” tab and click on the “DVD Contents” links - see instructions in back pages of your eBook. Framework Design Guidelines, Second Edition, teaches developers the best practices for designing reusable libraries for the Microsoft .NET Framework. Expanded and updated for .NET 3.5, this new edition focuses on the design issues that directly affect the programmability of a class library, specifically its publicly accessible APIs. This book can improve the work of any .NET developer producing code that other developers will use. It includes copious annotations to the guidelines by thirty-five prominent architects and practitioners of the .NET Framework, providing a lively discussion of the reasons for the guidelines as well as examples of

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when to break those guidelines. Microsoft architects Krzysztof Cwalina and Brad Abrams teach framework design from the top down. From their significant combined experience and deep insight, you will learn The general philosophy and fundamental principles of framework design Naming guidelines for the various parts of a framework Guidelines for the design and extending of types and members of types Issues affecting-and guidelines for ensuring-extensibility How (and how not) to design exceptions Guidelines for-and examples of-common framework design patterns Guidelines in this book are presented in four major forms: Do, Consider, Avoid, and Do not. These directives help focus attention on practices that should always be used, those that should generally be used, those that should rarely be used, and those that should never be used. Every guideline includes a discussion of its applicability, and most include a code example to help illuminate the dialogue. Framework Design Guidelines, Second Edition, is the only definitive source of best practices for managed code API development, direct from the architects themselves. A companion DVD includes the Designing .NET Class Libraries video series, instructional presentations by the authors on design guidelines for developing classes and components that extend the .NET Framework. A sample API specification and other useful resources and tools are also included.

Software -- Software Engineering.

Part of Microsoft's radical new WinFX API is the foundation code-named Indigo, now

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commonly known as Windows Communication Foundation (WCF). WCF technology allows web developers to create services that communicate and interoperate with each other and other programs and applications. This text is real-world oriented, offering a practical WCF programming model, and chapters on creating a WCF web service; hosting and consuming WCF services; deploying and managing WCF services; reliable messaging and queue management, and WCF Security. As there are currently few books available on WCF, this book will be useful to WCF developers, who tend to be early adopters.

Programming WCF Services is the authoritative, bestselling guide to Microsoft's unified platform for developing modern service-oriented applications on Windows. Hailed as the definitive treatment of WCF, this book provides unique insight, rather than documentation, to help you learn the topics and skills you need for building WCF-based applications that are maintainable, extensible, and reusable. Author Juval Löwy -- one of the world's top .NET experts -- revised this edition to include the newest productivity-enhancing features of .NET Framework 4 and the Azure AppFabric Service Bus, as well as the latest WCF ideas and techniques. By teaching you the why and the how of WCF programming, Programming WCF Services will help you master WCF and make you a better software engineer. Learn about WCF architecture and essential building blocks, including key concepts such as reliability and transport sessions Use built-in features such as service hosting, instance and concurrency management, transactions,

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disconnected queued calls, security, and discovery Master the Windows Azure AppFabric Service Bus, the most revolutionary piece of the new cloud computing initiative Increase your productivity and the quality of your WCF services by taking advantage of relevant design options, tips, and best practices in L ö wy's ServiceModelEx framework Discover the rationale behind particular design decisions, and delve into rarely understood aspects of WCF development "If you choose to learn WCF, you've chosen well. If you choose to learn with the resource and guidance of Juval L ö wy, you've done even better... there are few people alive today who know WCF as well." --Ron Jacobs, Senior Technical Evangelist for WCF, Microsoft Corporation

.NET Core in Action

SQL Server Database Programming with Visual Basic.NET

Dependency Injection Principles, Practices, and Patterns

Windows Communication Foundation with .NET 4

Build and Consume RESTful Web Services with .NET 3.5

Murach's ASP.NET 2.0 Web Programming with C# 2005

**Fully updated for ASP.NET MVC 3. Delve into the features, principles, and pillars of the ASP.NET MVC framework—deftly guided by web development luminary Dino Esposito. ASP.NET MVC forces developers to think in terms of distinct components—Model, View, Controller—that make it easier to manage application complexity, while allowing strict control over the**

**markup. Plunge into the framework's internal mechanics and gain perspectives on how to use this programming model versus Web Forms, and begin building your own MVC-based applications quickly.**

**Programming WCF Services is the authoritative, bestselling guide to Microsoft's unified platform for developing modern, service-oriented applications on Windows. Hailed as the definitive treatment of WCF, this guide provides unique insight, rather than documentation, to help you learn the topics and skills you need for building maintainable, extensible, and reusable WCF-based applications. Authors Juval Löwy—one of the world's top .NET experts—and Michael Montgomery have revised this edition to include the productivity-enhancing features of .NET Framework 4.6, along with the latest WCF ideas and techniques. By teaching you the why and the how of WCF programming, this book will help you master WCF and make you a better software engineer. Learn WCF's architecture and essential building blocks, including key concepts such as reliability and transport sessions Use built-in features such as service contracts, instance and concurrency management, transactions, queued services, and security Increase the quality of your WCF services by using design options, tips, and best practices in Löwy's ServiceModelEx framework Understand the rationale behind particular design decisions, and rarely understood aspects**

**of WCF development Learn why Azure Service Fabric is the killer app for modern DevOps**

**Programming WCF Services Design and Build Maintainable Service-Oriented Systems"O'Reilly Media, Inc."**

**This book is a step-by-step tutorial with clear instructions and screenshots to guide you through the creation of a multi-tier real-world WCF service solution. Configuration files, host applications, test clients, and WCF services for each solution will be available for download on this website for you to examine, modify, and debug from the outside to the inside. The book focuses on the essentials of using WCF and LINQ, rather than providing a reference to every single possibility. It leaves the reference material online where it belongs, and concentrates instead on practical examples, code, and advice. This book is for C# and C++ developers who are eager to get started with WCF and LINQ, and want a book that is practical and rich with examples from the very beginning. Developers and architects evaluating SOA implementation technologies for their company will find this book particularly useful because it gets you started with Microsoft's tools for SOA and shows you how to customize our examples for your prototypes. This book presumes basic knowledge of C# or C++. Previous experience with Visual Studio will be helpful but is not required, as detailed instructions are**

**given throughout the book.**

**Learning WCF**

**Programming Microsoft SQL Server 2012**

**Fundamental Design Solutions for SOAP/WSDL and RESTful Web Services**

**Exam Ref 70-487 Developing Windows Azure and Web Services (MCSD)**

**Programming .NET Components**

*Web services have been used for many years. In this time, developers and architects have encountered a number of recurring design challenges related to their usage, and have learned that certain service design approaches work better than others to solve certain problems. In Service Design Patterns, Rob Daigneau codifies proven design solutions for web services that follow the REST architectural style or leverage the SOAP/WSDL specifications. This catalogue identifies the fundamental topics in web service design and lists the common design patterns for each topic. All patterns identify the context in which they may be used, explain the constituent design elements, and explore the relative strengths and trade-offs. Code examples are provided to help you better understand how the patterns work but are kept general so that you can see how the solutions may be applied to disparate technologies that will*

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*inevitably change in the years to come. This book will help readers answer the following questions: How do you create a web service API, what are the common API styles, and when should a particular style be used? How can clients and web services communicate, and what are the foundations for creating complex conversations in which multiple parties exchange data over extended periods of time? What are the options for implementing web service logic, and when should a particular approach be used? How can clients become less coupled to the underlying systems used by a service? How can information about a web service be discovered? How can generic functions like authentication, validation, caching, and logging be supported on the client or service? What changes to a service cause clients to break? What are the common ways to version a service? How can web services be designed to support the continuing evolution of business logic without forcing clients to constantly upgrade? This book is an invaluable resource for enterprise architects, solution architects, and developers who use web services to create enterprise IT applications, commercial or open source products, and Software as a Service (SaaS) products that leverage emerging Cloud platforms. Over 85 easy recipes for managing communication between applications with Microsoft Windows Communication Foundation 4.0 in this book and eBook.*

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*Build SOA applications on the Microsoft platform with this hands-on book and eBook guide updated for VS2010*

*RESTful .NET is the first book that teaches Windows developers to build RESTful web services using the latest Microsoft tools. Written by Windows Communication Foundation (WCF) expert Jon Flanders, this hands-on tutorial demonstrates how you can use WCF and other components of the .NET 3.5 Framework to build, deploy and use REST-based web services in a variety of application scenarios. RESTful architecture offers a simpler approach to building web services than SOAP, SOA, and the cumbersome WS- stack. And WCF has proven to be a flexible technology for building distributed systems not necessarily tied to WS- standards. RESTful .NET provides you with a complete guide to the WCF REST programming model for building web services consumed either by machines or humans. You'll learn how to:*

- Program Read-Only (GET) services*
- Program READ/WRITE services*
- Host REST services*
- Program REST feeds*
- Program AJAX REST clients*
- Secure REST endpoints*
- Use workflow to deliver REST services*
- Consume RESTful XML services using WCF*
- Work with HTTP*
- Work with ADO.NET Data Services (Astoria)*

*RESTful .NET introduces you to the ideas of REST and RESTful architecture, and includes a detailed discussion of how the Web/REST model*

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*plugs into the WCF architecture. If you develop with .NET, it's time to jump on the RESTful bandwagon. This book explains how. "While REST is simple, WCF is not. To really understand and exploit this part of WCF requires a knowledgeable and experienced guide. I don't know anybody who's better suited for this role than Jon Flanders. ...Jon is first-rate at explaining complicated things. This book is the best introduction I've seen to creating and using these services with WCF."--David Chappell, Chappell & Associates Practical Microsoft SOA Implementation*

*Windows Communication Foundation 3.5 Unleashed*

*Pro WCF*

*Wcf 4 0 Multi-Tier Services Development with Linq to Entities*

*Fundamentals of Computer Programming with C#*

*Professional WPF Programming*

This easy-to-use introduction to Microsoft Windows Communication Foundation (WCF) is ideal for developers who want to learn to build services on a company network or as part of an enterprise system. Built into Windows Vista and Longhorn, and available for Windows XP and Windows 2003, WCF provides a platform for service-oriented architecture (SOA) that enables secure and reliable communication among systems within an organization or across the Internet. With WCF, software developers can focus on their business applications and not the plumbing required to connect them. Furthermore, with WCF developers can learn a single programming

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API to achieve results previously provided by ASMX, Enterprise Services and .NET Remoting. Learning WCF removes the complexity of using this platform by providing detailed answers, explanations and code samples for the most common questions asked by software developers. Windows Communication Foundation (or WCF, formerly code name "Indigo") provides a set of programming APIs that make it easy to build and consume secure, reliable, and transacted services. This platform removes the need for developers to learn different technologies such as ASMX, Enterprise Services and .NET Remoting, to distribute system functionality on a corporate network or over the Internet. The first truly service-oriented platform, WCF provides innovations that decouple service design and development from deployment and distribution - creating a more flexible and agile environment. WCF also encapsulates all of the latest web service standards addressing, security, reliability and more.

Right Your Software and Transform Your Career Righting Software presents the proven, structured, and highly engineered approach to software design that renowned architect Juval Löwy has practiced and taught around the world. Although companies of every kind have successfully implemented his original design ideas across hundreds of systems, these insights never before appeared in print. Based on first principles in software engineering and a comprehensive set of matching tools and techniques, Löwy's methodology integrates system design and project design. First, he describes the primary area where many software architects fail and shows how to decompose a system into smaller building blocks or services, based on volatility. Next, he shows how to flow an effective project design from the system design; how to accurately calculate the project duration, cost, and risk; and how to devise multiple execution options. The method and principles in Righting Software apply regardless of your project and

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company size, technology, platform, or industry. Löwy starts the reader on a journey that addresses the critical challenges of software development today by righting software system projects as well as careers—and possibly the software industry as a whole. Software professionals, architects, project leads, or managers at any stage of their career will benefit greatly from the book, which provides guidance and knowledge that would otherwise take decades and many projects to acquire. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Sharpen your knowledge of C# C# know-how is a must if you want to be a professional Microsoft developer. It's also good to know a little C# if you're building tools for the web, mobile apps, or other development tasks. C# 7.0 All-in-One For Dummies offers a deep dive into C# for coders learning the nuances of the valuable programming language. Pop it open to get an intro into coding with C#, how to design secure apps and databases, and even pointers on building web and mobile apps with C#. C# remains one of the most in-demand programming language skills. The language regularly ranks in the top five among "most in-demand" languages, typically along with Java/JavaScript, C++, and Python. A December 2016 ZDNet article noted "If your employer is a Microsoft developer, you better know C#." Lucky for you, this approachable, all-in-one guide is here to help you do just that—without ever breaking a sweat! Includes coverage of the latest changes to C# Shows you exactly what the language can (and can't) do Presents familiar tasks you can accomplish with C# Provides insight into developing applications that provide protection against hackers If you have a basic understanding of coding and need to learn C#—or need a reference on the language in order to launch or further your career—look no further. A guide to architecting, designing, and building distributed applications with Windows

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Communication Foundation Windows Communication Foundation is the .NET technology that is used to build service-oriented applications, exchange messages in various communication scenarios, and run workflows. This guide enables developers to create state-of-the-art applications using this technology. Written by a team of Microsoft MVPs and WCF experts, this book explains how the pieces of WCF 4.0 build on each other to provide a comprehensive framework to support distributed enterprise applications. Experienced developers will learn both theory and practical application using the familiar Wrox approach. .NET developers will learn to design services, create a hosting environment with Dublin, build cloud-based integrations, and much more. Coverage Includes: Design Principles and Patterns Service Contracts and Data Contracts Bindings Clients Instanting Workflow Services Understanding WCF Security WCF Security in Action Federated Authentication in WCF Windows Azure Platform AppFabric Creating a SOA Case Creating the Communication and Integration Case Creating the Business Process Hosting WCF Multi-tier Services Development with LINQ .NET Development with the Windows Presentation Foundation Conventions, Idioms, and Patterns for Reusable .NET Libraries Elements of Reusable Object-Oriented Software Enterprise Integration Patterns Concepts, Designs and Implementations

***Prepare for Microsoft Exam 70-487—and help demonstrate your real-world mastery of developing Windows Azure and web services. Designed for experienced developers ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the***

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***expertise measured by these objectives: Accessing data Querying and manipulating data by using the Entity Framework Designing and implementing WCF Services Creating and consuming Web API-based services Deploying web applications and services This Microsoft Exam Ref: Organizes its coverage by exam objectives. Features strategic, what-if scenarios to challenge you.***

***A guide to the practical issues and applications in database programming with updated Visual Basic.NET SQL Server Database Programming with Visual Basic.NET offers a guide to the fundamental knowledge and practical techniques for the design and creation of professional database programs that can be used for real-world commercial and industrial applications. The author—a noted expert on the topic—uses the most current version of Visual Basic.NET, Visual Basic.NET 2017 with Visual Studio.NET 2017. In addition, he introduces the updated SQL Server database and Microsoft SQL Server 2017 Express. All sample program projects can be run in the most updated version, Visual Basic.NET 2019 with Visual Studio.NET 2019. Written in an accessible, down-to-earth style, the author explains how to build a sample database using the SQL Server management system and Microsoft SQL Server Management Studio 2018. The latest version of ASP.NET, ASP.NET 4.7, is also discussed to provide the most up-to-date Web database programming technologies. This important book: Offers illustrative practical examples and detailed descriptions to aid in comprehension of the material presented Includes both fundamental and advanced database programming techniques Integrates images into associated database tables using a DevExpress UI tools -WindowsUI Written for graduate and senior undergraduate students studying database***

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***implementations and programming courses, SQL Server Database Programming with Visual Basic.NET shows how to develop professional and practical database programs in Visual Basic.NET 2017/Visual Basic.NET 2019.***

***Describes ways to incorporate domain modeling into software development.***

***Pro WCF 4.0: Practical Microsoft SOA Implementation is a complete guide to Windows Communication Foundation from the service-oriented architecture (SOA) perspective, showing you why WCF is important to service-oriented architecture and development. This book provides deep insight into the functionality of WCF, which shipped with .NET 4.0-like service discovery, routing service, simplified configuration, and other advanced features. Included in this title are informative examples that will aid the reader in understanding and implementing these important additions. This book also covers the unified programming model, reliable messaging, security, and the peer-to-peer programming model. You'll also learn how to move your current .NET remoting and web service applications to WCF, and how to integrate those applications with WCF 4. This book offers genuine insight into solving real enterprise problems using WCF and .NET 4.0.***

***Domain-driven Design***

***Design and Build Maintainable Service-Oriented Systems***

***Microsoft Windows Communication Foundation 4.0 Cookbook for Developing SOA Applications***

***Righting Software***

***Programming Microsoft ASP.NET MVC***

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## ***.NET Development with the Windows Communication Foundation***

Your hands-on, step-by-step guide to building connected, service-oriented applications. Teach yourself the essentials of Windows Communication Foundation (WCF) 4 -- one step at a time. With this practical, learn-by-doing tutorial, you get the clear guidance and hands-on examples you need to begin creating Web services for robust Windows-based business applications. Discover how to: Build and host SOAP and REST services Maintain service contracts and data contracts Control configuration and communications programmatically Implement message encryption, authentication, and authorization Manage identity with Windows CardSpace Begin working with Windows Workflow Foundation to create scalable and durable business services Implement service discovery and message routing Optimize performance with service throttling, encoding, and streaming Integrate WCF services with ASP.NET clients and enterprise services components Your Step by Step digital content includes: Practice exercises Downloadable code samples Fully searchable online edition of the book -- with unlimited access on the Web

Programming WCF Services is the authoritative, bestselling introduction to Microsoft's unified platform for developing service-oriented applications (SOA) on Windows. Hailed as the most definitive treatment of WCF available, this relentlessly practical book provides insight, not documentation, to help you learn the topics and skills you need for building WCF-based applications that are maintainable, extensible, and reusable. Author Juval Lowy, Microsoft software legend and participant in WCF's original strategic design review, revised this new edition for the latest productivity-enhancing features of C# 3.0 and the .NET 3.5 SP1 Framework. The book also contains Lowy's ServiceModelEx, a framework of useful utilities,

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tools, and helper classes that let you simplify and automate many tasks, and extend WCF as well. With this book, you will: Learn about WCF architecture and essential building blocks, including key concepts such as reliability and transport session Use built-in features such as service hosting, instance management, concurrency management, transactions, disconnected queued calls, and security Take advantage of relevant design options, tips, and best practices in Lowy's ServiceModelEx framework to increase your productivity and the quality of your WCF services Learn the rationale behind particular design decisions, and discover poorly documented and little-understood aspects of SOA development By teaching you the "why" along with the "how" of WCF programming, Programming WCF Services not only will help you master WCF, it will enable you to become a better software engineer.

Windows Communication Foundation (WCF) is Microsoft ' s dynamic technology for allowing autonomous software to communicate. Superseding earlier technologies such as COM/DCOM, .NET Remoting, ASP.NET Web Services, and the Web Services Enhancements for .NET, WCF provides a single solution that is designed to always be the best way to exchange data among software entities. It also provides the infrastructure for developing the next generation of Web Services, with support for the WS-\* family of specifications, and a new serialization system for enhanced performance. In the 3.5 release, WCF has been expanded to include support for REST, JSON, and Syndication (RSS and Atom) services, further broadening the possibilities for what can be done. For information technology professionals, WCF supplies an impressive array of administration tools that enterprises and software vendors can use to reduce the cost of ownership of their solutions without writing a single line of code. Most important, WCF delivers on the promise of model-driven software

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development with the new software factory approach, by which one can iteratively design solutions in a modeling language and generate executables from lower-level class libraries. Windows Communication Foundation 3.5 Unleashed is designed to be the essential resource for software developers and architects working with WCF. The book guides readers through a conceptual understanding of all the facilities of WCF and provides step-by-step guides to applying the technology to practical problems. As evangelists at Microsoft for WCF, WF, and CardSpace, Craig McMurtry, Marc Mercuri, Nigel Watling, and Matt Winkler are uniquely positioned to write this book. They had access to the development team and to the product as it was being built. Their work with enterprises and outside software vendors has given them unique insight into how others see the software, how they want to apply it, and the challenges they face in doing so. --Gives you nearly 100 best practices for programming with WCF --Provides detailed coverage of how to version services that you will not find anywhere else --Delves into using WCF together with Windows Workflow Foundation (WF) and Windows CardSpace --Provides detailed coverage of the new high-performance data contract serializer for .NET --Walks you through creating secure, reliable, transacted messaging, and how to understand the available options --Introduces you to federated, claims-based security and shows you how to incorporate SAML and WS-Trust security token services into your architecture --Provides step-by-step instructions for how to customize every aspect of WCF --Shows you how to add behaviors, communication channels, message encoders, and transports --Presents options for implementing publish/subscribe solutions --Gives clear guidance on peer-to-peer communications with WCF  
Over 80 practical recipes for creating rich, data-driven business applications in Silverlight

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with this book and eBook.

Service Design Patterns

Pro WCF 4

A Hands-on Guide

Professional WCF 4

Developing Real World Applications with TDD

Professional Test Driven Development with C#

**Hands-on guidance to creating great test-driven development practice Test-driven development (TDD) practice helps developers recognize a well-designed application, and encourages writing a test before writing the functionality that needs to be implemented. This hands-on guide provides invaluable insight for creating successful test-driven development processes. With source code and examples featured in both C# and .NET, the book walks you through the TDD methodology and shows how it is applied to a real-world application. You'll witness the application built from scratch and details each step that is involved in the development, as well as any problems that were encountered and the solutions that were applied. Clarifies the motivation behind test-driven development (TDD), what it is, and how it works Reviews the various steps involved in developing an application and the testing that is involved prior to implementing the functionality Discusses unit testing and refactoring Professional Test-Driven Development with C# shows you how to create great TDD processes right away.**

**Written by Microsoft software legend Juval Lowy, Programming WCF Services is the authoritative introduction to Microsoft's new, and some say revolutionary, unified platform for developing service-oriented applications (SOA) on Windows. Relentlessly practical, the book**

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**delivers insight, not documentation, to teach developers what they need to know to build the next generation of SOAs. After explaining the advantages of service-orientation for application design and teaching the basics of how to develop SOAs using WCF, the book shows how you can take advantage of built-in features such as service hosting, instance management, asynchronous calls, synchronization, reliability, transaction management, disconnected queued calls and security to build best in class applications. Programming WCF Services focuses on the rationale behind particular design decisions, often shedding light on poorly-documented and little-understood aspects of SOA development. Developers and architects will learn not only the "how" of WCF programming, but also relevant design guidelines, best practices, and pitfalls. Original techniques and utilities provided by the author throughout the book go well beyond anything that can be found in conventional sources. Based on experience and insight gained while taking part in the strategic design of WCF and working with the team that implemented it, Programming WCF Services provides experienced working professionals with the definitive work on WCF. Not only will this book make you a WCF expert, it will make you a better software engineer. It's the Rosetta Stone of WCF.**

**Explores design solutions for scalable systems, including enterprise-wide, distributed applications using COM+ within the .NET framework, .NET 3.5 will help you create better Windows applications, build Web Services that are more powerful, implement new Workflow projects and dramatically enhance the user's experience. But it does so with what appears to be a collection of disparate technologies. In Programming .NET 3.5, bestselling author Jesse Liberty and industry expert Alex Horovitz uncover the common threads that unite the .NET 3.5 technologies, so you can benefit from the best practices and**

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architectural patterns baked into this newest generation of Microsoft frameworks. While single-topic .NET 3.5 books delve into Windows Presentation Foundation and the other frameworks in greater detail, Programming .NET 3.5 offers a "Grand Tour" of the release that describes how the four principal technologies can be used together, with Ajax, to build modern n-tier and service-oriented applications. Developers have struggled to implement these patterns with previous versions of the .NET Framework, but this hands-on guide uses real-world examples and fully annotated source code to demonstrate how .NET 3.5 can make it easy. The concepts and technologies that this book covers include: XAML -- Microsoft's new XML-based markup language for UI, used with WPF Windows Presentation Foundation (WPF) -- a new presentation framework and graphics subsystem for Windows that puts Vista-like effect in your grasp Ajax Windows Communication Foundation (WCF) - a new standards-based framework that enables applications to communicate across a network using a variety of protocols Workflow Foundation (WF) -- framework for defining, executing, and managing workflows CardSpace -- framework for managing the identities of your users You'll learn how to use each of the four frameworks alone and in concert to build a series of meaningful example applications. Examples are written in C#, and all of the source code will be available for download at both the O'Reilly and the authors' site, which offers access to a free support forum. Between them, authors Jesse Liberty and Alex Horovitz have nearly forty years of experience in delivering commercial applications for companies such as Citibank, Apple, AT&T, NeXt, PBS, Ziff Davis, and dozens of smaller organizations. Their combined experience is valuable for telling the story of .NET 3.5 and how it will shorten the development life cycle for applications developers, and enhance your productivity.

The Bulgarian C# Book

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## **COM and .NET Component Services**

## **Mastering WCF and the Azure AppFabric Service Bus**

## **Designing, Building, and Deploying Messaging Solutions**

## **Professional WCF Programming**

## **RESTful .NET**

Learn to master all the skills using ASP.NET's powerful features and to handle databases like a pro. The first chapters get off to a fast start with instruction on building multi-page applications. This book is designed for C# developers who want to learn how to develop professional web applications with Microsoft's ASP.NET 2.0.

Enterprise Integration Patterns provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and

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limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.

The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The

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book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: <http://www.introprogramming.info> License: CC-

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Your essential guide to key programming features in Microsoft SQL

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