## **Contents**

About the Author	xi
About the Technical Reviewer	xiii
Acknowledgments	XV
Introduction	xvii
Chapter 1 Introducing .NET and Enterprise	
Architecture	1
Defining Enterprise Applications	1
Leveraging the .NET Servers	7
Understanding the Enterprise Development Process	9
Understanding Enterprise Application Design	
Establishing an Application Development Framework	
Getting Started with Visual Studio .NET	16
Summary	21
Chapter 2 Accessing Data in ADO.NET	23
Building a Data Access Framework	
Understanding the ADO.NET Architecture	
Creating the Data Access Component	
Building Application Framework Objects	
Creating the Business Object Manager	
Managing Reference Data	
Connecting to Databases Other Than SQL Server	
Summary	69
Chapter 3 Using Networking Directory Services	71
Companies Dissertant Compies	74
Exploring Directory Services	/1
Leveraging .NET Framework Objects	70
Improving Directory Services  Improving Directory Service Performance	
Summary	
Juninaty	

Chapter 4 Applying Reliable Messaging	95
Introducing Messaging Systems	
Working with .NET Messaging Services	101
Implementing a Distributed Service	
Summary	128
Chapter 5 Integrating Mail Services	129
Understanding E-Mail Concepts	129
Building an E-Mail Business Service	136
Summary	149
Chapter 6 Automating Business Processes	151
Enabling Business Process Automation	151
Exploring BizTalk Server	152
Extending .NET Applications with BizTalk Server	
Defining the Business Process	
Implementing the Business Process	
Executing the Business Process	
Summary	1/5
Chapter 7 Building Web Applications	177
Standardizing Web Forms with Templates	177
Adding Dynamic Data to Web Forms	
Managing User Session Data	
Validating User Data Entry	
Applying Web User Controls	
Summary	209
Chapter 8 Developing Desktop Applications	211
Building a Desktop Application Framework	211
Creating a Plug-in Framework	
Adding Dynamic Data to Windows Forms	235
Extending Application Usability	
Packaging Application Resources	
Summary	257

Chapter 9 Using XML and Web Services259
Understanding the Extensible Markup Language
Chapter 10 Integrating Reporting Services301
Delivering Enterprise Reporting
Chapter 11 Deploying .NET Applications on Wireless Devices
Exploring the .NET Compact Framework
Chapter 12 Integrating .NET Applications
Defining an Application Integration Strategy
Chapter 13 Understanding .NET Security and Cryptography415
Defining Layers of Application Security

Chapter 14 Installing .NET Applications4	43
Defining the Elements of Application Deployment	444 445 458
Appendix A Building the IssueTracker Database4	67
Appendix B Understanding the IssueTracker Object Map4	∤ <b>71</b>
Appendix C Using String Format Specifiers4	73
Formatting Numbers	474
Appendix D Using XSLT Functions4	77
Index 4	79