

Contents

About this book	xi
Introduction	xv
Chapter 1: Creating your first Web service and Web application	1
Introducing Web service terminology	3
Installing WebSphere Application Server and Rational Developer	5
Setting up a Web project	6
Creating a Web service	14
Creating a Web application	21
In review	40
References	40
Chapter 2: Deploying and publishing your Web service	41
Creating a WebSphere Application Server profile	43
Preparing your Web service for deployment	45
Deploying your Web service to an application server	52
Publishing your Web service using UDDI	62
Publishing your Web service using WSIL	73
In review	77

Chapter 3: Discovering Web services	79
Creating the StockPriceLookup Web application	81
Discovering the Web service using UDDI	85
Testing the Web service	91
Finishing the Web application	94
Discovering the Web service using WSIL	99
Discovering and using public Web services	101
In review	106
Exercise	106
References	106
Chapter 4: Handling Web service errors	107
Monitoring Web service requests and responses	108
Adding error-checking to your Web application	116
Improving the Web service's error processing	122
In review	133
Exercise	134
Chapter 5: Using databases, part 1	135
Introduction to databases	136
Setting up the database	138
Creating the table	143
Creating the SQL statements	149
Generating JavaBeans from SQL statements	157
Disconnecting the database connection	162
In review	162
Exercise	162
Chapter 6: Using databases, part 2	163
Creating the Web service	164
Creating the Web application	188
In review	210
Exercise	210
References	211

Chapter 7: Using Web services with JavaServer Faces, part 1	213
Introducing JavaServer Faces	214
Creating the MyStocks Web application	216
Creating the StockPriceLookup Web application	234
In review	244
References	244
Chapter 8: Using Web services with JavaServer Faces, part 2	245
Creating the object model	246
Creating the Register Web page	249
Creating the Insert Web page	258
Creating the Update Web page	262
Creating the Thanks Web page	265
Setting up the navigation rules	266
Running the Web application	270
In review	272
Exercise	272
Chapter 9: Securing Web services, part 1	273
Introduction to security	274
Setting up the Web service and client application	278
Setting up the digital certificates	284
Signing the Web service request	292
Signing the Web service response	318
In review	329
References	329
Chapter 10: Securing Web services, part 2	331
Setting up the Web service and client application	332
Encrypting the Web service request	333
Encrypting the Web service response	348
In review	357
Until we meet again	357

<i>Appendix:</i>	Installing WebSphere Express	359
	Installing the WebSphere Application Server	360
	Installing Rational Web Developer	361
	Installing product updates	362