## Contents

| Chapter 4 Using the Validator Component        |
|--|
| Introducing the Validator Component            |
| Using the Struts Validator                     |
| Chapter 5 Using the BeanUtils Component        |
| Ringing Out the OldRinging In the New          |
| Using Dynamic Beans                            |
| Summary  |
| Chapter 6 Implementing Pooling                 |
| Why Use Pooling?                               |
| Understanding Database Connection Pooling      |
| Summary  |
| Chapter 7 Using the Digester Component         |
| Introducing Digester                           |
| Understanding Digester Concepts                |
| Following XML Rules                            |
| Summary  |
| Chapter 8 Using Collections and Primitives 139 |
| Introducing the Collections Component          |
| Using Collections                              |
| Summary  |
| Chapter 9 Using HttpClient and FileUpload 163  |
| Introducing HttpClient                         |

| Introducing FileUpload  |
|---|
| Chapter 10 Using the Net Component  |
| Introducing the Net Component   |
| Chapter 11 Using Other Commons Components 203   |
| Implementing DbUtils203Implementing Codec210Implementing JXPath211Implementing Discovery216Summary218 |
| Index   |