
Brief Contents

Section 1	Agile Development	1
<i>Chapter 1</i>	Agile Practices	3
<i>Chapter 2</i>	Overview of Extreme Programming	11
<i>Chapter 3</i>	Planning	19
<i>Chapter 4</i>	Testing	23
<i>Chapter 5</i>	Refactoring	31
<i>Chapter 6</i>	A Programming Episode	43
Section 2	Agile Design	85
<i>Chapter 7</i>	What Is Agile Design?	87
<i>Chapter 8</i>	SRP: The Single-Responsibility Principle	95
<i>Chapter 9</i>	OCP: The Open-Closed Principle	99
<i>Chapter 10</i>	LSP: The Liskov Substitution Principle	111
<i>Chapter 11</i>	DIP: The Dependency-Inversion Principle	127
<i>Chapter 12</i>	ISP: The Interface-Segregation Principle	135
Section 3	The Payroll Case Study	147
<i>Chapter 13</i>	COMMAND and ACTIVE OBJECT	151
<i>Chapter 14</i>	TEMPLATE METHOD & STRATEGY: Inheritance vs. Delegation	161
<i>Chapter 15</i>	FACADE and MEDIATOR	173
<i>Chapter 16</i>	SINGLETON and MONOSTATE	177

<i>Chapter 17</i> NULL OBJECT	189
<i>Chapter 18</i> The Payroll Case Study: Iteration One Begins	193
<i>Chapter 19</i> The Payroll Case Study: Implementation	205
<hr/>	
Section 4 Packaging the Payroll System	251
<hr/>	
<i>Chapter 20</i> Principles of Package Design	253
<i>Chapter 21</i> FACTORY	269
<i>Chapter 22</i> The Payroll Case Study (Part 2)	275
<hr/>	
Section 5 The Weather Station Case Study	291
<hr/>	
<i>Chapter 23</i> COMPOSITE	293
<i>Chapter 24</i> OBSERVER—Backing into a Pattern	297
<i>Chapter 25</i> ABSTRACT SERVER, ADAPTER, and BRIDGE	317
<i>Chapter 26</i> PROXY and STAIRWAY TO HEAVEN: Managing Third Party APIs	327
<i>Chapter 27</i> Case Study: Weather Station	355
<hr/>	
Section 6 The ETS Case Study	385
<hr/>	
<i>Chapter 28</i> VISITOR	387
<i>Chapter 29</i> STATE	419
<i>Chapter 30</i> The ETS Framework	443
<i>Appendix A</i> UML Notation I: The CGI Example	467
<i>Appendix B</i> UML Notation II: The STATMUX	489
<i>Appendix C</i> A Satire of Two Companies	507
<i>Appendix D</i> The Source Code Is the Design	517
<hr/>	
Index	525