## Contents

<table>
<thead>
<tr>
<th>Preface</th>
<th>v</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART ONE</strong>&lt;br&gt;AIS Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>Look at topics that form the foundation of most AIS courses.</td>
<td></td>
</tr>
<tr>
<td><strong>Chapter 1</strong>&lt;br&gt;Role and Purpose of Accounting Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>AIS in the Business World</td>
<td>2</td>
</tr>
<tr>
<td>Definition and Importance of AIS</td>
<td>4</td>
</tr>
<tr>
<td>AIS Structure</td>
<td>7</td>
</tr>
<tr>
<td>AIS Information Sources and Information Literacy Concepts</td>
<td>8</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>11</td>
</tr>
<tr>
<td>Text Structure and Content</td>
<td>12</td>
</tr>
<tr>
<td>Summary</td>
<td>13</td>
</tr>
<tr>
<td>Key Terms</td>
<td>14</td>
</tr>
<tr>
<td>Chapter References</td>
<td>14</td>
</tr>
<tr>
<td>End-of-Chapter Activities</td>
<td>15</td>
</tr>
<tr>
<td><strong>Chapter 2</strong>&lt;br&gt;Transaction Processing in the AIS</td>
<td>20</td>
</tr>
<tr>
<td>AIS in the Business World</td>
<td>20</td>
</tr>
<tr>
<td>Accounting and Bookkeeping</td>
<td>21</td>
</tr>
<tr>
<td>Accounting Cycle</td>
<td>22</td>
</tr>
<tr>
<td>Coding Systems</td>
<td>28</td>
</tr>
<tr>
<td>Human Judgment and Information Technology</td>
<td>30</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>30</td>
</tr>
<tr>
<td>Summary</td>
<td>32</td>
</tr>
<tr>
<td>Key Terms</td>
<td>33</td>
</tr>
<tr>
<td>Chapter References</td>
<td>33</td>
</tr>
<tr>
<td>End-of-Chapter Activities</td>
<td>33</td>
</tr>
<tr>
<td><strong>Chapter 3</strong>&lt;br&gt;Internal Controls</td>
<td>39</td>
</tr>
<tr>
<td>AIS in the Business World</td>
<td>39</td>
</tr>
<tr>
<td>Internal Control Definition and Importance</td>
<td>40</td>
</tr>
<tr>
<td>Risks</td>
<td>42</td>
</tr>
<tr>
<td>COSO’s Internal Control Integrated Framework</td>
<td>44</td>
</tr>
<tr>
<td>Internal Control Examples</td>
<td>47</td>
</tr>
<tr>
<td>Internal Control Applications</td>
<td>50</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>53</td>
</tr>
<tr>
<td>Summary</td>
<td>54</td>
</tr>
<tr>
<td>Key Terms</td>
<td>55</td>
</tr>
<tr>
<td>Chapter References</td>
<td>55</td>
</tr>
<tr>
<td>End-of-Chapter Activities</td>
<td>55</td>
</tr>
<tr>
<td><strong>Chapter 4</strong>&lt;br&gt;Management Concepts</td>
<td>63</td>
</tr>
<tr>
<td>AIS in the Business World</td>
<td>63</td>
</tr>
<tr>
<td>Enterprise Risk Management</td>
<td>64</td>
</tr>
<tr>
<td>Nature of Business Process Management</td>
<td>66</td>
</tr>
<tr>
<td>Basic Principles</td>
<td>68</td>
</tr>
<tr>
<td>Behavioral Issues in AIS</td>
<td>69</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>71</td>
</tr>
<tr>
<td>Summary</td>
<td>73</td>
</tr>
<tr>
<td>Key Terms</td>
<td>74</td>
</tr>
<tr>
<td>Chapter References</td>
<td>74</td>
</tr>
<tr>
<td>End-of-Chapter Activities</td>
<td>74</td>
</tr>
<tr>
<td><strong>Chapter 5</strong>&lt;br&gt;Information Systems Concepts</td>
<td>80</td>
</tr>
<tr>
<td>AIS in the Business World</td>
<td>80</td>
</tr>
<tr>
<td>Systems Development Life Cycle</td>
<td>81</td>
</tr>
<tr>
<td>Capability Maturity Model</td>
<td>84</td>
</tr>
<tr>
<td>Information Technology Selection</td>
<td>86</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>89</td>
</tr>
<tr>
<td>Summary</td>
<td>91</td>
</tr>
<tr>
<td>Key Terms</td>
<td>92</td>
</tr>
<tr>
<td>Chapter References</td>
<td>92</td>
</tr>
<tr>
<td>End-of-Chapter Activities</td>
<td>92</td>
</tr>
<tr>
<td>Comprehensive Problem</td>
<td>96</td>
</tr>
<tr>
<td><strong>PART TWO</strong></td>
<td>101</td>
</tr>
<tr>
<td><strong>Documentation Techniques and Database Design</strong>&lt;br&gt;Look at common ways accountants create models of accounting information systems and explore database design.</td>
<td></td>
</tr>
<tr>
<td><strong>Chapter 6</strong>&lt;br&gt;Flowcharting</td>
<td>102</td>
</tr>
<tr>
<td>AIS in the Business World</td>
<td>102</td>
</tr>
<tr>
<td>Flowchart Types and Conventions</td>
<td>103</td>
</tr>
</tbody>
</table>
Flowcharting Tools and Symbols 105
Flowchart Design Steps 106
Flowcharting and Accounting Information Systems 108
Critical Thinking 110
Summary 111
Key Terms 112
Chapter References 112
End-of-Chapter Activities 112

Chapter 7
Data Flow Diagramming 119
AIS in the Business World 119
DFD Symbols and Design Considerations 120
Data Flow Diagrams and Flowcharts 123
Leveled Sets of DFDS 125
Database Design 127
Critical Thinking 131
Summary 133
Key Terms 134
Chapter References 134
End-of-Chapter Activities 134

Chapter 8
REA Modeling 140
AIS in the Business World 140
Types of Accounting Information Systems 141
REA Modeling 143
Cardinalities 145
Database Creation from an REA Model 147
Critical Thinking 149
Summary 152
Key Terms 153
Chapter References 153
End-of-Chapter Activities 153
Comprehensive Problem 159

PART THREE
Information Technology in the AIS 161
Look at ways various forms of information technology are used.

Chapter 9
XBRL 162
AIS in the Business World 162
Terminology 163
History and Structure 165

Global Taxonomies and Tagging Tools 168
Organizational Benefits 169
Internal Control 170
Critical Thinking 171
Summary 172
Key Terms 172
Chapter References 172
End-of-Chapter Activities 173

Chapter 10
E-business and Enterprise Resource Planning Systems 178
AIS in the Business World 178
E-Business 179
ERP Systems 184
Application Service Providers 187
Critical Thinking 188
Summary 190
Key Terms 190
Chapter References 191
End-of-Chapter Activities 191

Chapter 11
Computer Crime and Information Technology Security 196
AIS in the Business World 196
Business Risks and Threats to Information Systems 197
Information Security 200
CoBIT 202
Critical Thinking 205
Summary 206
Key Terms 207
Chapter References 207
End-of-Chapter Activities 207
Comprehensive Problem 214

PART FOUR
Business Processes 215
Look at various business processes that cut across organizations.

Chapter 12
Sales/Collection Process 216
AIS in the Business World 216
Process Description 218
AIS Structure 219