

Introduction to Data Mining Edition 2

Tan / Steinbach / Kumar / Karpatne

Binding Paper Bound with Access Card | Page Count 864

Introduction to Data Mining, Second Edition, is intended for use in the Data Mining course.

Introduction to Data Mining presents fundamental concepts and algorithms for those learning data mining for the first time. Each concept is explored thoroughly and supported with numerous examples. The text requires only a modest background in mathematics. Each major topic is organized into two chapters, beginning with basic concepts that provide necessary background for understanding each data mining technique, followed by more advanced concepts and algorithms.

This program will provide a better teaching and learning experience for you and your students. It will help present fundamental concepts and algorithms. Written for the beginner, this text provides both theoretical and practical coverage of all data mining topics.

Table of Contents

- 1. Introduction
- 2. Data
- 3. Classification: Basic Concepts and Techniques
- 4. Classification: Alternative Techniques
- 5. Association Analysis: Basic Concepts and Algorithms
- 6. Association Analysis: Advanced Concepts
- 7. Cluster Analysis: Basic Concepts and Algorithms
- 8. Cluster Analysis: Additional Issues and Algorithms
- 9. Anomaly Detection
- 10. Avoiding False Discoveries

ISBN 9780273769224 | PUB Date 5/10/2019



Starting Out with C++ from Control Structures to Objects, Global Edition Edition 9

Gaddis

Binding Paper Bound with Access Card | Page Count 1344

Starting Out with C++: From Control Structures through Objects covers control structures, functions, arrays, and pointers before objects and classes in Tony Gaddis's hallmark accessible, step-by-step presentation. His books help beginning students understand the important details necessary to become skilled programmers at an introductory level. Gaddis motivates the study of both programming skills and the C++ programming language by presenting all the details needed to understand the "how" and the "why"-but never losing sight of the fact that most beginners struggle with this material. His approach is gradual and highly accessible, ensuring that students understand the logic behind developing high-quality programs. As with all Gaddis texts, clear and easy-to-read code listings, concise and practical real-world examples, and an abundance of exercises appear in every chapter.

Table of Contents

- 1. Introduction to Computers and Programming
- 2. Introduction to C++
- 3. Expressions and Interactivity
- 4. Making Decisions
- 5. Loops and Files
- 6. Functions
- 7. Arrays and Vectors
- 8. Searching and Sorting Arrays
- 9. Pointers
- 10. Characters, C-Strings, and More about the string Class
- 11. Structured Data
- 12. Advanced File Operations
- 13. Introduction to Classes
- 14. More about Classes
- 15. Inheritance, Polymorphism, and Virtual Functions
- 16. Exceptions and Templates
- 17. The Standard Template Library
- 18. Linked Lists
- 19. Stacks and Queues
- 20. Recursion
- 21. Binary Trees

Appendix A: The ASCII Character Set

Appendix B: Operator Precedence and Associativity

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Problem Solving with C++ Edition 10 Savitch Binding Paper Bound with Access Card | Page Count 1120

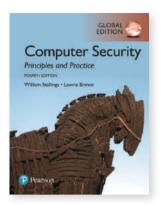
ISBN 978129222820 | PUB Date 11/20/2017

For courses in C++ introductory programming.

Now in its 10th Edition, Problem Solving with C++ is written for the beginning programmer. The text cultivates strong problemsolving skills and programming techniques as it introduces students to the C++ programming language. Author Walt Savitch's approach to programming emphasizes active reading through the use of well-placed examples and self-tests, while flexible coverage means instructors can easily adapt the order of chapters and sections to their courses without sacrificing continuity. Savitch's clear, concise style is a hallmark feature of the text, receiving praise from students and instructors alike, and is supported by a suite of tried-and-true pedagogical tools. The 10th Edition includes ten new Programming Projects, along with new discussions and revisions.

Table of Contents

- 1. Introduction to Computers and C++ Programming
- 2. C++ Basics
- 3. More Flow of Control
- 4. Procedural Abstraction and Functions That Return a Value
- 5. Functions for All Subtasks
- 6. I/O Streams as an Introduction to Objects and Classes
- 7. Arrays
- 8. Strings and Vectors
- 9. Pointers and Dynamic Arrays
- 10. Defining Classes
- 11. Friends, Overloaded Operators, and Arrays in Classes
- 12. Separate Compilation and Namespaces
- 13. Pointers and Linked Lists
- 14. Recursion
- 15. Inheritance
- 16. Exception Handling
- 17. Templates
- 18. Standard Template Library and C++11



Computer Security: Principles and Practice Edition 4

Stallings / Brown Binding Paper Bound with Access Card | Page Count 800

ISBN 9781292220611 | PUB Date 11/16/2017

For courses in computer/network security.

Computer Security: Principles and Practice, 4th Edition, is ideal for courses in Computer/Network Security. The need for education in computer security and related topics continues to grow at a dramatic rate and is essential for anyone studying Computer Science or Computer Engineering. Written for both an academic and professional audience, the 4th Edition continues to set the standard for computer security with a balanced presentation of principles and practice. The new edition captures the most up-to-date innovations and improvements while maintaining broad and comprehensive coverage of the entire field. The extensive offering of projects provides students with hands-on experience to reinforce concepts from the text. The range of supplemental online resources for instructors provides additional teaching support for this fast-moving subject.

The new edition covers all security topics considered Core in the ACM/IEEE Computer Science Curricula 2013, as well as subject areas for CISSP (Certified Information Systems Security Professional) certification. This textbook can be used to prep for CISSP Certification and is often referred to as the when it comes to information security certification. The text provides in-depth coverage of Computer Security, Technology and Principles, Software Security, Management Issues, Cryptographic Algorithms, Internet Security and more.

Table of Contents

Chapter 1 Overview PART ONE COMPUTER SECURITY TECHNOLOGY AND PRINCIPLES Chapter 2 Cryptographic Tools Chapter 3 User Authentication Chapter 4 Access Control Chapter 5 Database and Data Center Security Chapter 6 Malicious Software Chapter 7 Denial-of-Service Attacks **Chapter 8 Intrusion Detection** Chapter 9 Firewalls and Intrusion Prevention Systems PART TWO SOFTWARE SECURITY AND TRUSTED SYSTEMS Chapter 10 Buffer Overflow Chapter 11 Software Security Chapter 12 Operating System Security Chapter 13 Cloud and IoT Security PART THREE MANAGEMENT ISSUES Chapter 14 IT Security Management and Risk Assessment Chapter 15 IT Security Controls, Plans and Procedures Chapter 16 Physical and Infrastructure Security Chapter 17 Human Resources Security Chapter 18 Security Auditing Chapter 19 Legal and Ethical Aspects PART FOUR CRYPTOGRAPHIC ALGORITHMS Chapter 20 Symmetric Encryption and Message Confidentiality Chapter 21 Public-Key Cryptography and Message Authentication PART FIVE NETWORK SECURITY Chapter 22 Internet Security Protocols and Standards Chapter 23 Internet Authentication Applications Chapter 24 Wireless Network Security

APPENDICES ACRONYMS LIST OF NIST DOCUMENTS REFERENCES INDFX **ONLINE CHAPTERS AND APPENDICES** Online chapters, appendices, and other documents are Premium Content, available via the access card printed in the front of the book. Chapter 25 Linux Security Chapter 26 Windows and Windows Vista Security Appendix B Some Aspects of Number Theory Appendix C Standards and Standard-Setting Organizations Appendix D Random and Pseudorandom Number Generation Appendix E Message Authentication Codes Based on Block Ciphers Appendix F TCP/IP Protocol Architecture Appendix G Radix-64 Conversion Appendix H The Domain Name System Appendix I The Base-Rate Fallacy Appendix J SHA-3 Appendix K Glossary



Java: An Introduction to Problem Solving and Programming, Edition 8

Savitch

Binding Paper Bound with Access Card | Page Count 1056

For courses in introductory Computer Science courses using Java, and other introductory programming courses in Computer Science, Computer Engineering, CIS, MIS, IT, and Business.

Ideal for a wide range of introductory computer science courses, Java: An Introduction to Problem Solving and Programming, 8th Edition introduces students to objectoriented programming and important concepts such as design, testing and debugging, programming style, interfaces and inheritance, and exception handling. A concise, accessible introduction to Java, the text covers key Java language features in a manner that resonates with introductory programmers.

Table of Contents

- 1. Introduction to Computers and Java
- 2. Basic Computation
- 3. Flow of Control: Branching
- 4. Flow of Control: Loops
- 5. Defining Classes and Methods
- 6. More About Objects and Methods
- 7. Arrays
- 8. Inheritance, Polymorphism, and Interfaces
- 9. Exception Handling
- 10. Streams, File I/O, and Networking
- 11. Recursion
- 12. Dynamic Data Structures and Generics
- Appendices:
- 1. Getting Java
- 2. Running Applets
- 3. Protected and Package Modifiers
- 4. The DecimalFormat Class
- 5. Javadoc
- 6. Differences Between C++ and Java
- 7. Unicode Character Codes
- 8. Introduction to Java 8 Functional Programming
- 9. The Iterator Interface
- 10. Cloning
- 11. Java Reserved Keywords

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Java Software Solutions Edition 9

Lewis / Loftus

Pearson

Binding Paper Bound with Access Card | Page Count 800

For courses in Java programming.

Java Software Solutions establishes a strong foundation of programming techniques to foster well-designed objectoriented software. Heralded for its integration of small and large real-world examples, the worldwide best-selling text emphasizes problem-solving and design skills and introduces students to the process of constructing high-quality software systems. The 9th Edition features a sweeping overhaul of Graphics Track coverage, to fully embrace the JavaFX API. This fresh approach enriches programmers' understandings of core object-oriented principles.

Table of Contents

- 1. Introduction
- 2. Data and Expressions
- 3. Using Classes and Objects
- 4. Writing Classes
- 5. Conditionals and Loops
- 6. More Conditionals and Loops
- 7. Object-Oriented Design
- 8. Arrays
- 9. Inheritance
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- 11. Exceptions
- 12. Recursion
- 13. Collections
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- Appendix C: The Unicode Character Set
- Appendix D: Java Operators
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- Appendix F: Java Coding Guidelines
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ISBN 9781292221724 | PUB Date 4/2/2018

ISBN 9781292247472 | PUB Date 4/1/2018

The full catalogue and instructor resources are available online catalogue.pearsoned.co.uk/educator/catalog



Java How To Program (Early Objects) Edition 11

Deitel / Deitel Binding Paper Bound with Access Card | Page Count 1296

ISBN 9781292223858 | PUB Date 9/3/2017

For courses in Java programming.

The Deitels' groundbreaking How to Program series offers unparalleled breadth and depth of programming fundamentals, objectoriented programming concepts and intermediate-level topics for further study. Java How to Program, Early Objects, 11th Edition, presents leading-edge computing technologies using the Deitel signature live-code approach, which demonstrates concepts in hundreds of complete working programs. The 11th Edition presents updated coverage of Java SE 8 and new Java SE 9 capabilities, including JShell, the Java Module System, and other key Java 9 topics. Java How to Program, Late Objects, 11th Edition also is available.

Table of Contents

- 1. Introduction to Computers, the Internet and Java
- 2. Introduction to Java Applications; Input/Output and Operators
- 3. Introduction to Classes, Objects, Methods and Strings
- 4. Control Statements: Part 1; Assignment, ++ and -- Operators
- 5. Control Statements: Part 2; Logical Operators
- 6. Methods: A Deeper Look
- 7. Arrays and ArrayLists
- 8. Classes and Objects: A Deeper Look
- 9. Object-Oriented Programming: Inheritance
- 10. Object-Oriented Programming: Polymorphism and Interfaces
- 11. Exception Handling: A Deeper Look
- 12. JavaFX Graphical User Interfaces: Part 1
- 13. JavaFX GUI: Part 2
- 14. Strings, Characters and Regular Expressions
- 15. Files, Input/Output Streams, NIO and XML Serialization
- 16. Generic Collections
- 17. Lambdas and Streams
- 18. Recursion
- 19. Searching, Sorting and Big O
- 20. Generic Classes and Methods: A Deeper Look
- 21. Custom Generic Data Structures
- 22. JavaFX Graphics and Multimedia
- 23. Concurrency
- 24. Accessing Databases with JDBC
- 25. Introduction to JShell: Java 9's REPL
- Chapters on the Web
- A. Operator Precedence Chart
- B. ASCII Character Set
- C. Keywords and Reserved Words
- D. Primitive Types
- E. Using the Debugger
- Appendices on the Web
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- Online Chapters and Appendices
- 26. Swing GUI Components: Part 1
- 27. Graphics and Java 2D
- 28. Networking
- 29. Java Persistence API (JPA)
- 30. JavaServer™ Faces Web Apps: Part 1
- 31. JavaServer[™] Faces Web Apps: Part 2
- 32. REST-Based Web Services
- 33. (Optional) ATM Case Study, Part 1: Object-Oriented Design with the UML
- 34. (Optional) ATM Case Study, Part 2: Implementing an Object-Oriented Design
- 35. Swing GUI Components: Part 2
- 36. Java Module System and Other Java 9 Features
- F. Using the Java API Documentation
- G. Creating Documentation with javadoc
- H. Unicode®
- I. Formatted Output
- J. Number Systems
- K. Bit Manipulation
- L. Labeled break and continue Statements
- M. UML 2: Additional Diagram Types
- N. Design Patterns



Starting Out with Python, Edition 4

Gaddis

Binding Paper Bound with Access Card | Page Count 744

For courses in Python programming.

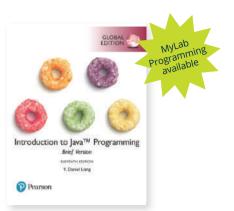
Starting Out with Python, 4th Edition, Tony Gaddis' accessible coverage introduces students to the basics of programming in a high-level language. Python, an easy-to-learn and increasingly popular object-oriented language, allows readers to become comfortable with the fundamentals of programming without the troublesome syntax that can be challenging for novices. With the knowledge acquired using Python, students gain confidence in their skills and learn to recognize the logic behind developing high-quality programs.

Starting Out with Python discusses control structures, functions, arrays, and pointers before objects and classes. As with all Gaddis texts, clear and easy-to-read code listings, concise and practical real-world examples, focused explanations, and an abundance of exercises appear in every chapter.

Table of Contents

- 1. Introduction to Computers and Programming
- 2. Input, Processing, and Output
- 3. Decision Structures and Boolean Logic
- 4. Repetition Structures
- 5. Functions
- 6. Files and Exceptions
- 7. Lists and Tuples
- 8. More About Strings
- 9. Dictionaries and Sets
- 10. Classes and Object-Oriented Programming
- 11. Inheritance
- 12. Recursion
- 13. GUI Programming
- Appendix A. Installing Python
- Appendix B. Introduction to IDLE
- Appendix C. The ASCII Character Set
- Appendix D. Predefined Named Colors
- Appendix E. More About the Import Statement
- Appendix F. Installing Modules with the Pip Utility
- Appendix G. Answers to Checkpoints

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Intro to Java Programming, Brief Version, Global Edition Edition 11

Liang

Binding Paper Bound with Access Card | Page Count 824

For courses in Java Programming.

This text is intended for a 1-semester CS1 course sequence. The Brief Version contains the first 18 chapters of the Comprehensive Version. The first 13 chapters are appropriate for preparing the AP Computer Science exam.

Table of Contents

- 1. Introduction to Computers, Programs, and Java
- 2. Elementary Programming
- 3. Selections
- 4. Mathematical Functions, Characters, and Strings
- 5. Loops
- 6. Methods
- 7. Single-Dimensional Arrays
- 8. Multidimensional Arrays
- 9. Objects and Classes
- 10. Object-Oriented Thinking
- 11. Inheritance and Polymorphism
- 12. Exception Handling and Text I/O
- 13. Abstract Classes and Interfaces
- 14. JavaFX Basics
- 15. Event-Driven Programming and Animations
- 16. JavaFX UI Controls and Multimedia
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The full catalogue and instructor resources are available online catalogue.pearsoned.co.uk/educator/catalog



Introduction to Java Programming and Data Structures, Comprehensive Version Edition 11

Liang

Binding Paper Bound with Access Card | Page Count 1232

ISBN 9781292221878 | PUB Date 2/19/2018

This text is intended for a 1-semester CS1 course sequence. The Brief Version contains the first 18 chapters of the Comprehensive Version. The first 13 chapters are appropriate for preparing the AP Computer Science exam.

For courses in Java Programming. A fundamentals-first introduction to basic programming concepts and techniques.

Designed to support an introductory programming course, Introduction to Java Programming and Data Structures teaches concepts of problem-solving and object-orientated programming using a fundamentals-first approach. Beginner programmers learn critical problem-solving techniques then move on to grasp the key concepts of object-oriented, GUI programming, advanced GUI and Web programming using JavaFX. This course approaches Java GUI programming using JavaFX, which has replaced Swing as the new GUI tool for developing cross-platform-rich Internet applications and is simpler to learn and use. The 11th edition has been completely revised to enhance clarity and presentation, and includes new and expanded content, examples, and exercises.

Table of Contents

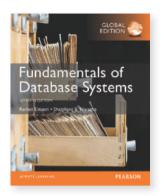
- 1. Introduction to Computers, Programs, and Java
- 2. Elementary Programming
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- 19. Generics
- 20. Lists, Stacks, Queues, and Priority Queues
- 21. Sets and Maps
- 22. Developing Efficient Algorithms
- 23. Sorting
- 24. Implementing Lists, Stacks, Queues, and Priority Queues
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 Bonus Chapters 31–44 are available from the Companion Website at www.pearsonhighered.com/liang:
 31. Advanced JavaFX and FXML
 32. Multithreading and Parallel Programming
- 33. Networking
- 34. Java Database Programming

Appendix A Java Keywords

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- 43. Red-Black Trees
- 44. Testing Using JUnit



Fundamentals of Database Systems Edition 7

Elmasri / Navathe Binding Paper Bound with Access Card | Page Count 1272

ISBN 9781292097619 | PUB Date 2/19/2018

For database systems courses in computer science

This book introduces the fundamental concepts for designing, using, and implementing database systems and applications. It stresses the fundamentals of database modeling and design, the languages and models provided by the database management systems, and database system implementation techniques. The book is meant to be used as a textbook for a one- or two-semester course in database systems at the junior, senior, or graduate level, and as a reference book. It aims to provide an in-depth and up-to-date presentation of the most important aspects of database systems and applications, and related technologies. It is assumed that readers are familiar with elementary programming and data-structuring concepts and that they have had some exposure to the basics of computer organization.

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Part 1: Introduction to Databases

- Chapter 1: Databases and Database Users
- Chapter 2: Database Systems Concepts and Architecture
- Part 2: Conceptual Data Modeling and Database Design
- Chapter 3: Data Modeling Using the Entity Relationship (ER) Model
- Chapter 4: The Enhanced Entity Relationship (EER) Model
- Part 3: The Relational Data Model and SQL
- Chapter 5: The Relational Data Model and Relational Database Constraints
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- Chapter 7: More SQL: Complex Queries, Triggers, Views, and Schema Modification
- Chapter 8: The Relational Algebra and Relational Calculus
- Chapter 9: Relational Database Design by ER- and EER-to-Relational Mapping
- Part 4: Database Programming Techniques
- Chapter 10: Introduction to SQL Programming Techniques
- Chapter 11: Web Database Programming Using PHP
- Part 5: Object, Object-Relational, and XML: Concepts, Models, Languages, and Standards
- Chapter 12: Object and Object-Relational Databases
- Chapter 13: XLM: Extensible Markup Language
- Part 6: Database Design Theory and Normalization
- Chapter 14: Basics of Functional Dependencies and Normalization for Relational Databases
- Chapter 15: Relational Database Design Algorithms and Further Dependencies
- Part 7: File Structures, Hashing, Indexing, and Physical Database Design
- Chapter 16: Disc Storage, Basic File Structures, Hashing, and Modern Storage Architectures
- Chapter 17: Indexing Structures for Files and Physical Database Design

Part 8: Query Processing and Optimization

- Chapter 18: Strategies for Query Processing
- Chapter 19: Query Optimization

- Part 9: Transaction Processing, Concurrency Control, and Recovering
- Chapter 20: Introduction to Transaction Processing Concepts and Theory
- Chapter 21: Concurrency Control Techniques
- Chapter 22: Database Recovery Techniques
- Part 10: Distributed Databases, NOSQL Systems, Cloud Computing, and Big Data
- Chapter 23: Distributed Database Concepts
- Chapter 24: NOSQL Databases and Big Data Storage Systems
- Chapter 25: Big Data Technologies Based on MapReduce and Hadoop
- Part 11: Advanced Database Models, Systems, and Applications Chapter 26: Enhanced Data Models: Introduction to Active,
- Temporal, Spatial, Multimedia, and Deductive Databases
- Chapter 27: Introduction to Information Retrieval and Web Search Chapter 28: Data Mining Concepts
- Chapter 29: Overview of Data Warehousing and OLAP
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- Chapter 30: Database Security
- Appendix A: Alternative Diagrammatic Notations for ER Models Appendix B: Parameters of Disks
- Appendix C: Overview of the QBE Language
- Appendix D: Overview of the Hierarchical Data Model
- Appendix E: Overview of the Network Data Model



Absolute C++ Edition 6

Savitch / Mock

Binding Paper Bound with Access Card | **Page Count** 1008

For courses in computer programming for business and engineering.

Absolute C++ is a comprehensive introduction to the C++ programming language. The text is organized around the specific use of C++, providing students with an opportunity to master the language completely. Adaptable to a wide range of users, the text is appropriate for beginner to advanced programmers familiar with the C++ language. The Sixth Edition covers everything from basic syntax to more advanced topics, such as polymorphism, exception handling, and the Standard Template Library, making it ideal for both beginner and intermediate students.

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Introduction to Computing and Programming in Python Edition 4

Guzdial / Ericson

Binding Paperback | Page Count 528

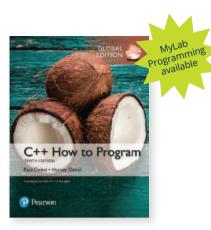
For courses in computer programming with Python.

Introduction to Computing and Programming in Python is a uniquely researched and up-to-date volume that is widely recognized for its successful introduction to the subject of Media Computation. Emphasizing creativity, classroom interaction, and in-class programming examples, this text takes a bold and unique approach to computation that engages students and applies the subject matter to the relevancy of digital media. The 4th Edition teaches students to program in an effort to communicate via social computing outlets.

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ISBN 9781292109862 | PUB Date 4/2/2018



C++ How to Program (Early Objects Version) Edition 10

Deitel / Deitel
Binding Paper Bound with Access Card | Page Count 1080

ISBN 9781292153346 | PUB Date 2/19/2018

For courses in C++ programming.

C++ How to Program is accessible to readers with little or no programming experience, yet comprehensive enough for the professional programmer. The Deitels' signature live-code approach presents the concepts in the context of full working programs followed by sample executions. The early objects approach gets readers thinking about objects immediately, allowing them to master the concepts. Emphasis is placed on achieving program clarity and building well-engineered software. Interesting, entertaining, and challenging exercises encourage students to make a difference and use computers and the Internet to work on problems. To keep readers up- to-date with leading-edge computing technologies, the Tenth Edition conforms to the C++11 standard and the new C++14 standard.

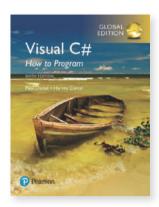
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- J Using the Xcode Debugger



Visual C# How to Program Edition 6

Deitel / Deitel

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- Cloud Computing with Microsoft Azure™
- Windows Presentation Foundation (WPF) GUI, Graphics,
 - Multimedia and XAML
- ATM Case Study, Part 1: Object-Oriented Design with the UML
- ATM Case Study, Part 2: Implementing an Object- Oriented Design in C#
- Using the Visual Studio Debugger

ISBN 9781292153469 | PUB Date 4/1/2018



Computer Networking: A Top-Down Approach Edition 7

Kurose / Ross

Binding Paper Bound with Access Card | Page Count 856

For courses in networking/communications

The 7th Edition of the popular Computer Networking: A Top Down Approach builds on the author's long tradition of teaching this complex subject through a layered approach in a "top-down manner." The text works its way from the application layer down toward the physical layer, motivating students by exposing them to important concepts early in their study of networking. Focusing on the Internet and the important issues of networking, this text provides an excellent foundation for students in computer science and electrical engineering, without requiring extensive knowledge of programming or mathematics.

Table of Contents

Computer Networks and the Internet Application Layer Transport Layer The Network Layer: Data Plane The Network Layer: Control Plane The Link Layer: Links, Access Networks, and LANs Wireless and Mobile Networks Security in Computer Networks

Multimedia Networking

ISBN 9781292153599 | PUB Date 4/2/2018



Designing the User Interface: Strategies for Effective Human-Computer Interaction Edition 6

Shneiderman / Plaisant / Cohen / Jacobs / Elmqvist / Diakopoulos

Binding Paper Bound with Access Card | Page Count 624

ISBN 9781292153919 | PUB Date 4/1/2018

For courses in human-computer interaction.

The 6th Edition of Designing the User Interface provides a comprehensive, authoritative, and up-to-date introduction to the dynamic field of human-computer interaction (HCI) and user experience (UX) design. The book covers theoretical foundations and design processes such as expert reviews and usability testing.

By presenting current research and innovations in HCI, the authors strive to inspire students, guide designers, and provoke researchers to seek solutions that improve the experiences of novice and expert users, while achieving universal usability.

Updates include current HCI design methods, new design examples, totally revamped coverage of social media, search and voice interaction, major revisions to chapter content, figures, and updates to references.

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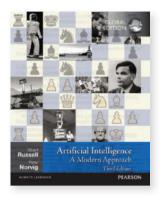
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- Part 2. Design Processes
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- 6. Design Case Studies
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Afterword. Societal and Individual Impact of User Interfaces



Artificial Intelligence: A Modern Approach Edition 3

Russell / Norvig Binding paper | Page count 1152

ISBN 9781292153964 | PUB Date 4/1/2018

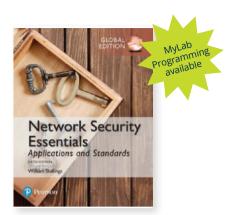
For one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence.

The long-anticipated revision of this best-selling text offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence.

Table of Contents

- I. Artificial Intelligence
- 1. Introduction
- 2. Intelligent Agents
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Network Security Essentials: Applications and Standards Edition 6

Stallings

Binding Paper Bound with Access Card | Page Count 464

For courses in corporate, computer and network security.

Network Securities Essentials: Applications and Standards introduces students to the critical importance of internet security in our age of universal electronic connectivity. Amidst viruses, hackers, and electronic fraud, there is a heightened need among organizations and individuals to protect data and resources from disclosure, guarantee their authenticity, and safeguard systems from network-based attacks.

The 6th Edition covers the expanding developments in the cryptography and network security disciplines, giving students a practical survey of applications and standards. The text places emphasis on applications widely used for Internet and corporate networks, as well as extensively deployed internet standards.

Table of Contents

1. Introduction

- Part I: Cryptography
- 2. Symmetric Encryption and Message
- 3. Public-Key Cryptography and Message
- 4. Key Distribution and User Authentication
- 5. Network Access Control and Cloud Security
- 6. Transport-Level Security
- 7. Wireless Network Security
- 8. Electronic Mail Security
- 9. IP Security
- Part III: System Security
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- 12. Firewalls APPENDICES

APPENDICES

Appendix A Some Aspects of Number Theory Appendix B Projects for Teaching Network Security

ISBN 9781292154855 | PUB Date 4/1/2018



Starting Out with C++: Early Objects Edition 9

Gaddis / Walters / Muganda

Binding Paper Bound with Access Card | Page Count 1272

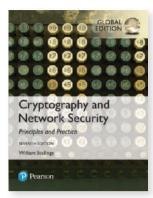
For a two-term, three-term, or accelerated one- term course in C++ programming.

Starting Out with C++: Early Objects 9th Edition introduces the fundamentals of C++ to novices and experienced students alike. In clear, easy-to-understand terms, the text introduces all of the necessary topics for beginning C++ programmers. Real-world examples allow students to apply their knowledge in understanding how, why, and when to implement the features of C++. The text is organized in a progressive, step-by-step fashion that allows for flexibility.

Table of Contents

Introduction to Computers and Programming Introduction to C++ Expressions and Interactivity Making Decisions Looping Functions Introduction to Classes and Objects Arrays Searching, Sorting, and Algorithm Analysis Pointers More about Classes and Object-Oriented Programming More on C-Strings and the String Class Advanced File and I/O Operations Recursion Polymorphism and Virtual Functions Exceptions, Templates, and the Standard Template Library (STL) Linked Lists Stacks and Queues **Binary Trees**

ISBN 9781292157276 | PUB Date 4/1/2018



Cryptography and Network Security: Principles and Practice Edition 7

Stallings

Binding Paper Bound with Access Card | Page Count 768

For courses in cryptography, computer security, and network security.

Stallings' Cryptography and Network Security, 7th Edition, introduces students to the compelling and evolving field of cryptography and network security. In an age of viruses and hackers, eavesdropping, and electronic fraud on a global scale, security is paramount. The book provides a practical survey of both the principles and practice of cryptography and network security. The first part of the book explores the basic issues to be addressed by a network security capability. The latter part of the book deals with the practice of network security.

Table of Contents

- 1. Computer and Network Security Concepts
- 2. Introduction to Number Theory
- 3. Classical Encryption Techniques
- 4. Block Ciphers and the Data Encryption Standard
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- 8. Random Bit Generation and Stream Ciphers
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- 12. Message Authentication Codes
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Objects First with Java: A Practical Introduction Using BlueJ Edition 6

Barnes

Binding Paper Bound with Access Card | Page Count 664

An introduction to object-oriented programming for beginners

Objects First with Java: A Practical Introduction focuses on general object-oriented and programming concepts from a software engineering perspective.

The Java programming language and BlueJ—the Java development environment—are the two tools used in the book.

Table of Contents

- Part 1: Foundations of object orientation
- 1. Objects and classes
- 2. Understanding class definitions
- 3. Object interaction
- 4. Grouping objects
- 5. Functional Processing of Collections (Advanced)
- 6. More-sophisticated behavior
- 7. Fixed-size collections arrays
- 8. Designing classes
- 9. Well-behaved objects
- Part 2: Application structures
- 10. Improving structure with inheritance
- 11. More about inheritance
- 12. Further abstraction techniques
- 13. Building graphical user interfaces
- 14. Handling errors
- 15. Designing applications
- 16. A case study
- Appendices
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- B Java data types
- C Operators
- D Java control structures E Running Java without Blue
- F Using the debugger
- G Unit unit-testing tools H Teamwork tools
- I Javadoc
- J Program style guide
- K Important library classes

ISBN 9781292159041 | PUB Date 4/1/2018



Building Java Programs: A Back to Basics Approach Edition 4

Reges / Stepp

Binding Paper Bound with Access Card | Page Count 1224

For courses in Java programming

Newly revised and updated, Building Java Programs: A Back to Basics Approach 4th Edition uses a layered strategy to introduce Java programming and overcome the high failure rates common in introductory computer science courses. The authors' proven and class-tested "back to basics" approach introduces programming fundamentals first, with new syntax and concepts added over multiple chapters. Object- oriented programming is discussed only once students have developed a basic understanding of Java programming.

Previous editions have established the text's reputation as an excellent choice for two-course sequences in introductory computer science, and new material in the 4th Edition incorporates concepts related to Java 8, functional programming, and image manipulation.

Table of Contents

- 1. Introduction to Java Programming
- 2. Primitive Data and Definite Loops
- 3. Introduction to Parameters and Objects
- 4. Conditional Execution
- 5. Program Logic and Indefinite Loops
- 6. File Processing
- 7. Arrays
- 8. Classes
- 9. Inheritance and Interfaces
- 10. ArrayLists
- 11 Java Collections Framework
- 12. Recursion
- 13. Searching and Sorting
- 14. Stacks and Queues
- 15. Implementing a Collection Class
- 16. Linked Lists
- 17. Binary Trees
- 18. Advanced Data Structures
- 19. Functional Programming with Java
- Appendix A Java Summary

Appendix B The Java API Specification and Javadoc Comments Appendix C Additional Java Syntax

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Starting Out with Visual C# Edition 4

Gaddis

Binding Paper Bound with Access Card | Page Count 792

For courses in introductory C# programming

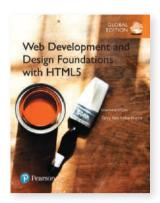
Clear, friendly, and approachable, Starting Out With Visual C# 4th Edition is an ideal beginning text for students with no programming experience. Detailed walk-throughs and a readable, comprehensible style make the text inviting to new programmers, while practical example programs highlight the most important programming topics. Gaddis's detailed, step-by-step instructions teach a GUI-based approach that motivates students with familiar graphical elements.

Topics are examined progressively in each chapter, with objects taught before classes. The 4th Edition has been completely updated for Visual Studio 2015 and contains new sections on debugging, accessing controls on different forms, and auto-properties.

Table of Contents

- 1. Introduction to Computers and Programming
- 2. Introduction to Visual C#
- 3. Processing Data
- 4. Making Decisions
- 5. Loops, Files, and Random Numbers
- 6. Modularizing Your Code with Methods
- 7. Arrays and Lists
- 8. More about Processing Data
- 9. Classes and Multiform Projects
- 10. Inheritance and Polymorphism
- 11. Databases

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Web Development and Design Foundations with HTML5 Edition 8

Felke-Morris

Binding Paper Bound with Access Card | Page Count 720

For courses in web development and design

Updated and expanded in this 8th Edition, Web Development and Design Foundations with HTML5 presents a comprehensive introduction to the development of effective web sites. Intended for beginning web development courses, the text relates both the necessary hard skills (such as HTML5, CSS, and JavaScript) and soft skills (design, e-commerce, and promotion strategies) considered fundamental to contemporary web development. An emphasis on hands-on practice guides students, as the text introduces topics ranging from configuration and layout to accessibility techniques and ethical considerations. The 8th Edition contains updated coverage of HTML5 and CSS, expanded coverage of designing for mobile devices, and more.

Table of Contents

- 1. Introduction to the Internet and World Wide Web
- 2. HTML Basics
- 3. Configuring Color and Text with CSS
- 4. Visual Elements and Graphics
- 5. Web Design
- 6. Page Layout
- 7. More on Links, Layout, and Mobile
- 8. Tables
- 9. Forms
- 10. Web Development
- 11. Web Multimedia and Interactivity
- 12. E-Commerce Overview
- 13. Web Promotion
- 14. A Brief Look at JavaScript and jQuery

ISBN 9781292164076 | PUB Date 4/1/2018



The Practice of Computing Using Python Edition 3

Punch / Enbody

Binding Paperback | Page Count 912

For courses in Python programming

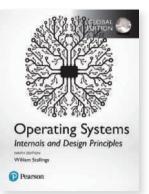
Practice of Computing Using Python 3rd Edition introduces both majors and nonmajors taking CS1 courses to computational thinking using Python, with a strong emphasis on problem solving through computer science. The authors have chosen Python for its simplicity, powerful built-in data structures, advanced control constructs, and practicality. The text is built from the ground up for Python programming, rather than having been translated from Java or C++.

Focusing on data manipulation and analysis, the text allows students to work on real problems using Internet-sourced or self-generated data sets that represent their own work and interests. The authors also emphasize program development and provide both majors and nonmajors with a practical foundation in programming.

Table of Contents

- I. Thinking About Computing
- 0. The Study of Computer Science
- II. Starting to Program
- 1. Beginnings
- 2. Control
- 3. Algorithms and Program Development
- III. Data Structures and Functions
- 4. Working with Strings
- 5. Functions-QuickStart
- 6. Files and Exceptions I
- 7. Lists and Tuples
- 8. More on Functions
- 9. Dictionaries and Sets
- 10. More Program Development
- IV. Classes, making your own Data Structure and Algorithms
- 12. More on Classes
- 13. Program Development with Classes
- V. Being a better programmer
- 14. Files and Exceptions II
- 15. Recursion: Another Control Mechanism
- 16. Other Fun Stuff with Python
- 17. The End, or Perhaps the Beginning

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Operating Systems: Internals and Design Principles Edition 9

Stallings

Binding Paper Bound with Access Card | Page Count 912

Intended for use in a one- or two-semester undergraduate course in operating systems for computer science, computer engineering, and electrical engineering majors

Operating Systems: Internals and Design Principles provides a comprehensive and unified introduction to operating systems topics. Stallings emphasizes both design issues and fundamental principles in contemporary systems and gives readers a solid understanding of the key structures and mechanisms of operating systems. He discusses design tradeoffs and the practical decisions affecting design, performance and security. The book illustrates and reinforces design concepts and ties them to real-world design choices through the use of case studies in Linux, UNIX, Android, and Windows 8.

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- I. Thinking About Computing
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- II. Starting to Program
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- 2. Control
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- III. Data Structures and Functions
- 4. Working with Strings
- 5. Functions-QuickStart
- 6. Files and Exceptions I
- 7. Lists and Tuples
- 8. More on Functions
- 9. Dictionaries and Sets
- 10. More Program Development
- IV. Classes, making your own Data Structure and Algorithms
- 12. More on Classes
- 13. Program Development with Classes
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- 16. Other Fun Stuff with Python
- 17. The End, or Perhaps the Beginning

ISBN 9781292214290 | PUB Date 4/1/2018



Computer Science: An Overview Edition 13

Brookshear / Brylow

Binding Paperback | Page Count 736

For the Introduction to Computer Science course

A broad exploration of computer science–with the depth needed to understand concepts

Computer Science: An Overview provides a bottom-up, concrete-to-abstract foundation that students can build upon to see the relevance and interrelationships of future computer science courses. Its comprehensive coverage and clear language are accessible to students from all backgrounds, encouraging a practical and realistic understanding.

More than 1,000 questions and exercises, Chapter Review Problems, and Social Issues questions reinforce core concepts. The 13th Edition continues its focus on Python to provide programming tools for exploration and experimentation. A new full-color design reflects the use of color in most modern programming interfaces to aid the programmer's understanding of code. Syntax coloring is now used more effectively for clarifying code and pseudocode segments in the text, and many figures and diagrams are now rendered more descriptively.

Table of Contents

Introduction

- 1 Data Storage
- 2 Data Manipulation
- **3** Operating Systems
- 4 Networking and the Internet
- 5 Algorithms
- 6 Programming Languages
- 7 Software Engineering
- 8 Data Abstractions
- 9 Database Systems
- 10 Computer Graphics
- 11 Artificial Intelligence
- 12 Theory of Computation

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The full catalogue and instructor resources are available online catalogue.pearsoned.co.uk/educator/catalog