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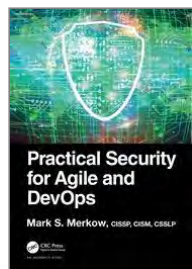
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Practical Security for Agile and DevOps



Mark S. Merkow

This text offers college students in Information Security Programs an accessible and practical guide on securing software development practices, regardless of which development methodology is used. It is written with a contemporary view on securing all types of software development practices or methodologies with in-depth, practical, and accessible advice on software security that stands up to advancements and threats to Internet technology. After reviewing software methodologies including agile, the book explains successful secure, resilient, and agile software development practices.

Auerbach Publications

February 2022:236

Hb: 978-1-032-20647-9: **£160**

Pb: 978-1-032-15120-5: **£59.99**

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Practical Core Software Security

A Reference Framework



James F. Ransome, Anmol Misra, Mark S. Merkow

The textbook explains developer-centric software security, a holistic process to engage creativity for security. As long as software is developed by humans, it requires the human element to fix it. The text outlines a step-by-step process for software security that is relevant to today's technical, operational, business, and development environments but focused on educating graduate and undergraduate students. The text focuses on what humans can do to control and manage a secure software development process in the form of best practices and metrics. Although security issues will always exist, the text teaches how to maximize the ability to minimize vulnerabilities.

Auerbach Publications

August 2022:286

Hb: 978-1-032-33314-4: **£180**

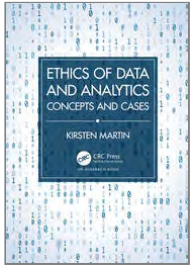
Pb: 978-1-032-27603-8: **£74.99**

eBook: 978-1-003-31907-8

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Ethics of Data and Analytics

Concepts and Cases



Kirsten Martin

This textbook provides faculty the major concepts and cases to include in a class on the ethics of data analytics. The book is distinct as it focuses on ethics of data analytics, AI, and data (rather than infrastructure and reliability) and by explicitly linking data analytics to foundational business ethics theory. The book is an anthology of important readings targeting undergraduate and graduate students. The readings will include the original works of philosophers, economists, law professors, and computer scientists. Tackling the ethical issues of data science requires a holistic approach, and no one discipline has the answer.

Auerbach Publications

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Hb: 978-1-032-21731-4: **£150**

Pb: 978-1-032-06293-8: **£56.99**

eBook: 978-1-003-27829-0

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3RD EDITION

Database Design Using Entity-Relationship Diagrams



Sikha Saha Bagui, Richard Walsh Earp

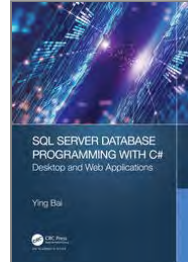
Thoroughly revised and updated, this third edition covers, in an intuitive and informal way, the complete database design process, all the way from the inception of a database to effectively mapping the design to a relational model, that can then be implemented effectively in any relational software. Readers of this book will also understand how to reverse engineer a database back from relational mappings. Rules are presented for the forward and reverse mappings of the database to relational mappings and vice versa.

Auerbach Publications
September 2022:388
Hb: 978-1-032-01718-1: **£150**
Pb: 978-1-032-32321-3: **£56.99**
eBook: 978-1-003-31445-5

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SQL Server Database Programming with C#

Desktop and Web Applications



Ying Bai

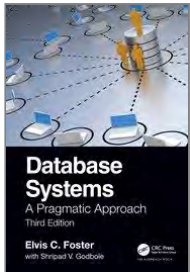
One of the most popular database systems, Microsoft SQL Server 2019 Express, is presented and implemented in the book with over 40 real projects. This undergraduate textbook covers fundamental and advanced database programming techniques, which students learn by programming a database for both the web and desktop. Two approaches presented. The first approach, the Visual Studio design tools and wizards, makes database programming simple and interesting for beginners. To meet the needs of advanced students and experienced programmers, the second approach, explains the runtime object method with completed blocks of code

Auerbach Publications
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eBook: 978-1-003-31983-2

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Database Systems

A Pragmatic Approach, 3rd edition



Elvis Foster, Shripad Godbole

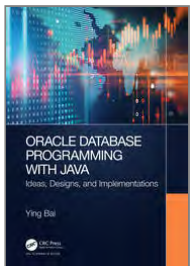
This textbook is ideally suited for an undergraduate course in database systems. The discipline of database systems design and management is discussed within the context of a bigger picture — that of software engineering. The student is made to understand from the outset, that a database is a mission-critical component of a software system; that databases systems often form part of an organization's information infrastructure; and that proper database design and management is integral to the success of its related software engineering project and/or its related organizational information infrastructure.

Auerbach Publications
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eBook: 978-1-003-27572-5

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Oracle Database Programming with Java

Ideas, Designs, and Implementations



Ying Bai

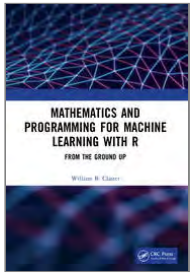
This textbook provides a detailed description about the practical considerations and applications in Oracle database programming using the most updated Apache NetBeans 12.4 as the IDE with authentic examples and detailed explanations. More important, quite a few of advanced Java programming techniques, such as Java Server Page (JSP), Java Web applications, Java Beans and Java Web Services, are developed and implemented in this book, combined with real examples, to provide readers with a clear picture as how to handle the Oracle database programming issues in Java NetBeans IDE environment.

Auerbach Publications
August 2022:604
Hb: 978-1-032-30229-4: **£82.99**
eBook: 978-1-003-30402-9

* For full contents and more information, visit: www.routledge.com/9781032302294

Mathematics and Programming for Machine Learning with R

From the Ground Up



William Cluster

The language of machine learning is programming, and this textbook helps novice programmers acquire step-by-step skills needed to understand and implement algorithms. Beginning with simple implementations and moving to the modern object-oriented paradigm, the text presents important basic algorithms and powerful deep learning algorithms. It begins with basic concepts in R and proceeds to basic concepts in math and statistics, all done from a programming point of view and then to the implementation of several algorithms. Strong emphasis is placed on improving the programming skills and implementing full-fledged algorithms.

CRC Press

October 2020:430

Hb: 978-0-367-56194-9: **£99.99**

Pb: 978-0-367-50785-5: **£48.99**

eBook: 978-1-003-05122-0

* For full contents and more information, visit: www.routledge.com/9780367507855

Business Analysis, Requirements, and Project Management

A Guide for Computing Students



Karl Cox

The biggest problem in software development is building the wrong product because IT people do not understand what business people want. This textbook explains how to model a product proposal from a business perspective, its processes, and IT requirements, as well as managing the project to build the project. It links business and IT requirements with project management in an incremental and straightforward approach. Designed for computing students, it presents a step-by-step approach, examples, explanations, exercises, and answers. The text gives students what they need to get through requirements and management courses and prepares them for professional practice.

Auerbach Publications

October 2021:218

Hb: 978-1-032-10975-6: **£130**

Pb: 978-0-367-76684-9: **£48.99**

eBook: 978-1-003-16811-9

* For full contents and more information, visit: www.routledge.com/9780367766849

Optimizing Project Management



Te Wu

Optimizing Project Management is for both aspiring and practicing project management professionals. It covers the core concepts, practices, and skills that are useful for developing new ideas, planning activities, implementing projects, and conduct planning and controlling of schedule, budget, and scope. The text is particularly useful for students, project professionals wanting to refresh their knowledge, and those pursuing project management certifications. This book is aligned with the Project Management Body of Knowledge,[®] Sixth Edition and covers all ten knowledge areas plus some additional knowledge domains.

Auerbach Publications

May 2020:372

Pb: 978-0-367-42992-8: **£36.99**

eBook: 978-1-003-00111-9

* For full contents and more information, visit: www.routledge.com/9780367429928

The Sensible Guide to Program Management Professional (PgMP)[®] Success



Te Wu

This book helps program managers to pass the Program Management Professional (PgMP)[®] certification exam by explaining the core concepts, providing 420 exam questions, and helping program managers develop a test taking strategy that works. Written by the CEO of PMO Advisory, which has a record of 99.5% first time pass rate, this book can be an indispensable resource for all serious professionals pursuing the PgMP credential. By registering with PMO Advisory, a PMI[®] Global Registered Education Provider, readers can have free access to an online exam simulator for 30 days and other valuable PgMP support resources.

Auerbach Publications

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Hb: 978-1-032-03319-8: **£135**

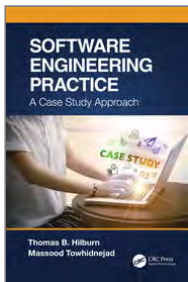
Pb: 978-0-367-70237-3: **£52.99**

eBook: 978-1-003-14516-5

* For full contents and more information, visit: www.routledge.com/9780367702373

Software Engineering Practice

A Case Study Approach



Thomas B. Hilburn, Massood Towhidnejad

This textbook explains software engineering through the use of a case study on the software development lifecycle. The case study covers the development of a DigitalHome (DH) System. A set of scenarios that provide a realistic framework for use of the DH System material are included along with exercises that provide students with an opportunity to engage in the software development practice within a team environment. Each chapter includes mini tutorials that introduce various software engineering topics discussed. Teacher notes and other web resources are available upon qualified course adoption.

Chapman & Hall
December 2020:356
Hb: 978-1-466-59167-7: **£170**
Pb: 978-0-367-68864-6: **£66.99**
eBook: 978-0-429-16849-9

* For full contents and more information, visit: www.routledge.com/9780367688646

2ND EDITION

Software Engineering

A Methodical Approach, 2nd Edition



Elvis Foster, Bradford Towle Jr.

This text provides a comprehensive, but concise introduction to software engineering. It adopts a methodical approach to solving software engineering problems, proven over several years of teaching, with outstanding results. The book covers concepts, principles, design, construction, implementation, and management issues of software engineering. With an emphasis on object-oriented development, the second edition features new chapters on software engineering projects, management support systems, and software engineering frameworks and patterns as a significant building block for the design and construction of contemporary software systems.

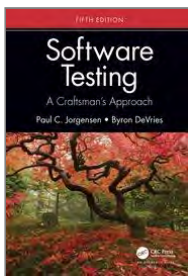
Auerbach Publications
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Hb: 978-0-367-76943-7: **£120**
Pb: 978-0-367-74601-8: **£59.99**
eBook: 978-0-367-74602-5

* For full contents and more information, visit: www.routledge.com/9780367746018

5TH EDITION

Software Testing

A Craftsman's Approach, Fifth Edition



Paul C. Jorgensen, Byron DeVries

The 5th Edition of Software Testing: A Craftsman's Approach responds to feedback from users and is a major rewrite, deleting outdated material and adding new sections on model-based testing and feature interaction testing. One major change is the shift to Java for both the procedural and object-oriented examples. The examples are updated and include an event-driven example. The fifth edition streamlines examples and more tightly coordinates the chapters. This best-selling textbook retains its strong emphasis on theory and rigor.

Auerbach Publications
August 2022:550
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eBook: 978-1-003-16844-7

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4TH EDITION

Requirements Engineering for Software and Systems



Phillip A. Laplante, Mohamad Kassab

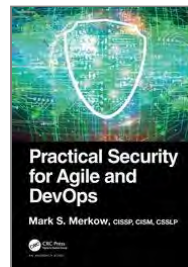
Series: Applied Software Engineering Series

This textbook provides a comprehensive treatment of the theoretical and practical aspects of discovering, analyzing, modeling, validating, testing, and writing requirements for software systems. New chapters examine nonfunctional requirements and requirements of systems using disruptive technologies such as blockchain. Also new are sections on Model-Based System Engineering and SysML, an appendix on IBM DOORS Requirements Management Tool, and a review of the state of the practice. Updates include new material on UML, the ISO functional size measurement method, and a discussion of the latest requirements tools.

Auerbach Publications
June 2022:428
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Practical Security for Agile and DevOps



Mark S. Merkow

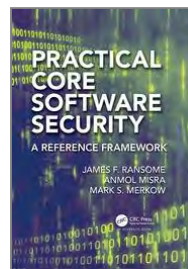
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