Computer Science & Engineering

Pearson Education
Higher Education
International Catalogue: London 2022
Java How to Program - Revel for Edition 12
Paul J. Deitel

Rights sold
9780137598670
Previous edition 9780134743356
Publication date 15-09-2022
Pearson
Pages
RRP $89.99

Short description
Unparalleled breadth and depth of object-oriented programming concepts
The Deitels' groundbreaking How to Program series offers unparalleled breadth and depth of programming fundamentals, object-oriented programming concepts and intermediate-level topics for further study

Discipline/Subject
Computer Science

Author bio
Paul J. Deitel, CEO and Chief Technical Officer of Deitel & Associates, Inc., is an MIT graduate with 41 years of experience in computing
Short description
This print textbook is available for students to rent for their classes. A user-friendly, code-intensive introduction to C programming with case studies introducing applications and system programming. C How to Program is a comprehensive introduction to programming in C. The signature live-code approach presents concepts in the context of 142 full-working programs rather than incomplete snips of code. This gives students a chance to run each program as they study it and see how their learning applies to real-world programming scenarios.

Discipline/Subject
Computer Science

Author bio
Paul J. Deitel, CEO and Chief Technical Officer of Deitel & Associates, Inc., is an MIT graduate with 41 years of experience in computing.
Basics of Web Design - Pearson eText
Edition 6
Terry Felke-Morris

Short description
Basics of Web Design: HTML5 is a foundational introduction to beginning web design and web development. The text provides a balance of "hard" skills such as HTML 5, CSS, and "soft" skills such as web design, publishing to the web, and a focus on accessibility and ethics, giving you a well-rounded foundation to pursue a career as a web professional and the tools you need to build your skills in the fields of web design, web graphics, and web development.

Discipline/Subject
Computer Science

Author bio
Dr. Terry Ann Felke-Morris is a Professor Emerita at Harper College in Palatine, Illinois
Statistics offers a trusted, comprehensive introduction to the discipline that emphasizes inference and includes real data integrated throughout. The authors stress the development of statistical thinking, the assessment of credibility and the value of the inferences made from data.

Discipline/Subject
Computer Science
Short description
For courses in problem solving and programming logic. A clear and student-friendly introduction to programming logic. Starting Out with Programming Logic and Design introduces programming concepts and problem-solving skills using an accessible, language-independent approach. Fundamental topics and object-oriented concepts are introduced without the complication of language syntax. Easy-to-read pseudocode, flowcharts, examples and exercises help new programmers gain confidence in their skills and learn to recognize the logic of high-quality programs.

Discipline/Subject
Academic Computer Science (Imp)

Author bio
Tony Gaddis is the principal author of the Starting Out With series of textbooks. Tony has nearly two decades of experience teaching computer science courses at Haywood Community College.
Starting out with Python - Revel for
Edition 6
Tony Gaddis

Rights sold
9780137619153
Previous edition 9780135116517
Publication date 15-06-2022
Pearson
Pages
RRP $89.99

Short description
Revel™ Starting Out with Python is an interactive learning environment that integrates media, interactives, and assessment throughout the narrative so students can read, explore, and practice essential coding skills in context. In Revel Starting Out with Python, Tony Gaddis' accessible coverage introduces students to the basics of Python programming concepts and problem-solving skills. As with all Gaddis titles, every chapter includes clear and easy-to-read code listings, concise and practical real-world examples, focused explanations and an abundance of exercises

Discipline/Subject
Computer Science

Author bio
Tony has nearly two decades of experience teaching computer science courses, primarily at Haywood Community College.
Introduction to Python Programming - Revel for
Edition 3
Y. Daniel Liang

Short description
For introductory courses in Python Programming and Data Structures. Revel™ Introduction to Python Programming and Data Structures introduces students to basic programming concepts using a fundamentals-first approach that prepares students to learn object-oriented programming and advanced Python programming. This approach presents programming concepts and techniques that include control statements, loops, functions, and arrays before designing custom classes. Students learn basic logic and programming concepts prior to moving into object-oriented and GUI programming.

Discipline/Subject
Computer Science

Author bio
Dr. Y. Daniel Liang earned his Ph.D. in Computer Science from the University of Oklahoma in 1991, and an MS and BS in Computer Science from Fudan University in Shanghai, China, in 1986 and 1983.
Introduction to C++ Programming - Revel for Edition 5
Y. Daniel Liang

Rights sold

9780136922049
Previous edition 9780134642451
Publication date 12-07-2021
Pearson
Pages
RRP $59.99

Short description
A fundamentals-first approach to programming helps you create efficient, elegant code. Revel® for Introduction to Programming with C++ and Data Structures helps you learn essential programming concepts and practice coding in one continuous experience — anytime, anywhere, and on any device. Author Daniel Liang introduces basic programming concepts using a fundamentals-first approach that prepares you to learn object-oriented and advanced C++ programming. More than a digital textbook, Revel delivers an engaging blend of tutorial videos, code animations, coding interactives, self-test items, and graded code assessment interwoven in Liang’s proven narrative content and pedagogy. Thousands of contextual examples help you learn how to use programming to solve problems. Up-to-date content reflects recent programming trends, such as cloud storage and touchscreens, and all code is compatible with C++17.

Discipline/Subject
Computer Science

Author bio
Dr. Y. Daniel Liang earned his Ph.D. in Computer Science from the University of Oklahoma in 1991, and an MS and BS in Computer Science from Fudan University in Shanghai, China, in 1986 and 1983.
Short description
Absolute C++ is a comprehensive introduction to the C++ programming language. The text is organized around the specific use of C++, providing programmers 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.

Discipline/Subject
Academic Computer Science (Imp)

Author bio
Walter Savitch is Professor Emeritus of Computer Science at the University of California-San Diego.
Short description
For Introduction to Programming (CS1) and other more intermediate courses covering programming in C++. This best-selling comprehensive text is aimed at readers with little or no programming experience. It teaches programming by presenting the concepts in the context of full working programs and takes an early-objects approach. The authors emphasize achieving program clarity through structured and object-oriented programming, software reuse and component-oriented software construction. The 9e encourages students to connect computers to the community, using the Internet to solve problems & make a difference in our world.

Discipline/Subject
Academic Computer Science (Imp)

Author bio
Paul J. Deitel, CEO and Chief Technical Officer of Deitel Associates Inc., is a graduate of the MIT Sloan School of Management, where he studied Information Technology.
Short description
This book has been designed for students taking a first course in software engineering. People thinking about developing a product who don't have much software engineering experience may also find it useful

Discipline/Subject
MGE: Computer Science (Mech Ed)

Author bio
Ian Sommerville is Emeritus Professor of Computer Science at St Andrews University, Scotland. He has a BSc in Physics from Strathclyde University and MSc and PhD degrees in Computer Science from St Andrews University. He has been a full Professor of Computer Science since 1986
Computer Science
Why Computer Science?

- Globally a fast-growing profession.
- Computer applications are growing exponentially.
- Universal languages – C++ is C++ everywhere.

What’s the latest news that could positively affect sales success?

- Intro to Programming, already the biggest single contributor to CS sales due to its foundational nature.
- Being taken as an elective for those not majoring in computer science.

What do educators want and need?

- Instructors often find it hard to keep students engaged
- The syntax of the language can be difficult for beginners

What do students want and need?

- Students find it difficult to grasp this new subject without enough practice
- MyLab Programming provides the practice.
Computer Science Curriculum

Introductory

Computer Science: An Overview, Global Edition, 13e 2022
Glen Boggs, Brian R. Bransford
9781292253427

David A. Toffoli, Jan Pana
9781292176444

Jan Toreike-Olad
9781292078101

Engineering Software Product: An Introduction to Modern Software Engineering, 1e 2021
Ian Sommerville
9781292276549

Intro to Computer Science

Harvey Osborn, Paul Deitel
9781337252270

Objects First with Java: A Practical Introduction Using Bluej, Global Edition, 8e 2017
David J. Barnes
9781305435051

Starting Out with C++: From Control Structures through Objects, Global Edition 10e 2019
Tony Gaddis
9781337252338

Alpine Daniel, Harvey Osborn, Paul Deitel
9780132792381

Java How to Program Objects, International Edition, 11e 2018
Harvey Osborn, Paul Deitel
9781305233098

Java How to Program with Data Structures, Global Edition, 9e 2014
Harvey Osborn, Paul Deitel, Abigail Deitel
9780133716053

Java How to Program with Data Structures, Global Edition, 9e 2014
Harvey Osborn, Paul Deitel, Abigail Deitel
9781337160372

Java How to Program with Data Structures, Global Edition, 9e 2014
Harvey Osborn, Paul Deitel, Abigail Deitel
9781337160372

Introduction to Programming with Python, 4e 2022
Tony Gaddis
9781337588967

Intro to Programming

Introduction to Python for Computer Science and Data Science: Learning to Program with AI, Big Data and the Cloud, Global Edition, 1e 2022
Y. Daniel Lang
9781337250942

Introductions to Java Programming and Data Structures, Comprehensive Version, 12e 2022
Y. Daniel Lang
9781337250942

The titles with symbols on the page can be packaged with our MyLab products, or are available in alternative formats. These resources are designed to improve results and help you achieve your course goals.

- Horizon
- MyLab Programming
- MyLab MIS
- Pearson eText
- Enhanced eBook
<table>
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<tr>
<th>Advanced</th>
<th>Networking</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Computer Organization and Architecture, 11e 2022 William Stallings 9781292942013</td>
<td></td>
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</tbody>
</table>

Digital developments
Digital developments for 2022

Revel is coming to Computer Science in June 2022

Tools will be forthcoming to help you demo when courses are available in June!
Google Analytics report for Mastering Computer Science across HEI markets:
- Product usage metrics across discipline (incl. GE and UKE)
- User behaviour (educators and students)
- What features work/don't work and making adoptions stickier
Product presentation

Computer Science
How will you generate sales with this product in 2022?

- Teaches programming in a problem-driven way.
- Integrates programming, data structures, and algorithms in one.
- Case Studies are easy-to-follow and show how to solve problems.
- VideoNotes provide step-by-step video tutorials.
- Companion website offers algorithm animations and quizzes.
- Will come with Revel, MyLab Programming, Pearson eText, uPub
How will you generate sales with this product in 2022?

- Shows latest technology, research, and innovations in the field;
- The treatment of assembly language expanded and new chapter on memory hierarchy.
- Digital courseware: eBook (uPDF) and Companion Website


ISBN: 9781292420103
Expected pub date: November 2021
Extent: 896pp
Previous ISBN: 9781292096858
How will you generate sales with this product in 2022?

• “Fundamentals first” approach
• Introduces basic programming concepts and techniques
• Focus on problem solving rather than syntax
• Covers all topics in a typical data structures course
• Covers using data structures before implementation

How will you generate sales with this product in 2022?

• Concepts explained in the context of real-world C programs.
• Each code example followed by input/output dialogs.
• Rich collection of case studies on computer-science, AI, and more.
• Adheres to C11/C18 standards.
• Comes with MyLab Programming, and a Pearson eText
Networking

William Stallings
TBD

Computer Org/ Architecture

Computer Organization and Architecture, 11e 2022
William Stallings
9781292420103

New Edition

How will you generate sales with this product in 2022?

- Concepts explained in the context of real-world C programs.
- Each code example followed by input/output dialogs.
- Rich collection of case studies on computer-science, AI, and more.
- Adheres to C11/C18 standards.
- Comes with MyLab Programming, and a Pearson eText
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- Case Studies are easy-to-follow and show how to solve problems.
- VideoNotes provide step-by-step video tutorials.
- Companion website offers algorithm animations and quizzes.
- Will come with Revel, MyLab Programming, Pearson eText, uPub
How will you generate sales with this product in 2022?

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- Introduces basic programming concepts and techniques
- Focus on problem solving rather than syntax
- Covers all topics in a typical data structures course
- Covers using data structures before implementation

How will you generate sales with this product in 2022?

• Shows latest technology, research, and innovations in the field;
• Supports ACM/IEEE Computer Science Curricula 2013 and Engineering Curricula 2016.
• The treatment of assembly language expanded and new chapter on memory hierarchy.
• Digital courseware: eBook (uPDF) and Companion Website
# Computer Science Curriculum

## Introductory

### Intro to Computer Science

- **Computer Science: An Overview, Global Edition, 13e 2020**
  
  
- **Software Engineering, Global Edition, 10e 2016**
  
- **Engineering Software Products: An Introduction to Modern Software Engineering, 1e 2021**

### Intro to Programming

- **Java How to Program, Late Objects, Global Edition, 11e 2020**
  
- **Objects First with Java: A Practical Introduction Using Bluej, Global Edition, 6e 2017**
  
  
  
  
  
- **Internet and World Wide Web How to Program, International Edition, 5e 2012**
  
- **Introduction to Programming with C++, International Edition, 5e 2013**
  
- **Starting Out with Python, 5e 2022**
  
- **Intro to Python for Computer Science and Data Science: Learning to Program with AI, Big Data and the Cloud, Global Edition, 1e 2022**

The titles with symbols on the page can be packaged with our MyLab products, or are available in alternative formats. These resources are designed to improve results and help you achieve your course goals.
### Advanced

**Networking**
  - James Kurose, Keith Ross
  - 9781292405469
  - William Stallings
  - 9781282187397

**Artificial Intelligence**
  - Stuart Russell, Peter Norvig
  - 9781292401133

**Data Structures**
  - Mark Allen Weiss
  - 9780201361222

**Data Mining**
- Introduction to Data Mining, 2e 2019
  - Pang-Ning Tan, Michael Steinbach, Arun Karpagam, Vipin Kumar
  - 9780201361222

**Computer Organization/Architecture**
  - Andrew S. Tanenbaum, Todd Austin
  - 9780201361222

**Programming for Engineers**
  - Delores M. Etter
  - 9780201361222

**Database Systems**
  - Thomas Costello, Carolyn Begg
  - 9781292098475

**Softside IT**
  - Kenneth Laudon, Jane Laubon
  - 9781292098475

The titles with symbols on the page can be packaged with our MyLab products, or are available in alternative formats. These resources are designed to improve results and help you achieve your course goals.
Short description
No prior knowledge of structural dynamics is assumed, and the presentation is detailed and integrated enough to make the text suitable for self-study. As a title on vibrations and structural dynamics, this book has no competition. The material includes many topics in the theory of structural dynamics, along with applications of this theory to earthquake analysis, response, design, and evaluation of structures, with an emphasis on presenting this often difficult subject in as simple a manner as possible through numerous worked-out illustrative examples.

Discipline/Subject
Engineering

Author bio
An expert on structural dynamics and earthquake engineering, Anil K. Chopra fills an important niche, explaining the material in an approachable style.
Modern Control Systems - Pearson eText
Edition 14
Richard C. Dorf

Rights sold
9780136922018
Previous edition
Publication date 01-02-2021
Pearson
Pages
RRP $48.74

Short description
Modern Control Systems presents the structure of feedback control theory and provides a sequence of exciting discoveries as students proceed through the text and problems. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory in the context of frequency and time domains. It provides coverage of both classical and modern methods of control engineering to give students a strong foundation in basic principles that they can utilize to explore advanced topics in later chapters.

Discipline/Subject
Engineering

Author bio
Richard C. Dorf was Emeriti Faculty of Electrical and Computer Engineering at the University of California, Davis
Short description
This print textbook is available for students to rent for their classes. A highly readable bestseller, Elementary Surveying presents basic concepts and practical material in each of the areas fundamental to modern surveying (geomatics) practice. While introductory, its depth and breadth also make it ideal for self-study and preparation for licensing examinations. The 16e includes more than 400 figures and illustrations to help clarify discussions and rewritten worked example problems to illustrate computational procedures. It is updated throughout to provide a state-of-the-art presentation of surveying equipment and procedures.

Discipline/Subject
Engineering

Author bio
Dr. Charles Ghilani is a Professor of Engineering in the B.S. Surveying Engineering and A.S. Surveying Technology programs at Penn State.
Short description
For undergraduate courses in mechanics of materials.

A proven approach to conceptual understanding and problem-solving skills

Mechanics of Materials excels in providing a clear and thorough presentation of the theory and application of mechanics of materials principles. Mechanics of Materials empowers students to succeed by drawing upon Professor Hibbeler's decades of classroom experience and his knowledge of how students learn. The text is shaped by the comments and suggestions of hundreds of reviewers in the teaching profession, as well as many of his students. The 11th Edition is linked to new videos that cover the lecture material, the example problems and the Fundamental Problems. The videos are designed to actively engage the student in the material and the solution process.

Discipline/Subject
Engineering

Author bio
R.C. Hibbeler graduated from the University of Illinois at Urbana with a BS in Civil Engineering (majoring in Structures) and an MS in Nuclear Engineering
Modified Mastering Engineering with Pearson eText - Engineering Mechanics: Statics
Edition 15
Russell C. Hibbeler

Short description
A proven approach to conceptual understanding and problem-solving skills. Engineering Mechanics: Statics excels in providing a clear and thorough presentation of the theory and application of engineering mechanics. Engineering Mechanics empowers students to succeed by drawing upon Professor Hibbeler's decades of everyday classroom experience and his knowledge of how students learn. The text is shaped by the comments and suggestions of hundreds of reviewers in the teaching profession, as well as many of the author's students.

Discipline/Subject
Engineering

Author bio
R.C. Hibbeler graduated from the University of Illinois at Urbana with a BS in Civil Engineering (majoring in Structures) and an MS in Nuclear Engineering.
Short description
A proven approach to conceptual understanding and problem-solving skills. Engineering Mechanics: Statics & Dynamics excels in providing a clear and thorough presentation of the theory and application of engineering mechanics. Engineering Mechanics empowers students to succeed by drawing upon Professor Hibbeler's decades of everyday classroom experience and his knowledge of how students learn. The text is shaped by the comments and suggestions of hundreds of reviewers in the teaching profession, as well as many of the author's students.

Discipline/Subject
Engineering

Author bio
R.C. Hibbeler graduated from the University of Illinois at Urbana with a BS in Civil Engineering (majoring in Structures) and an MS in Nuclear Engineering.
Short description
This print textbook is available for students to rent for their classes. For one/two-semester introductory courses in vibrations or structural dynamics for undergraduates in Mechanical Engineering, Civil Engineering, Aerospace Engineering or Engineering Mechanics. Serving as both a text and reference manual, Engineering Vibration connects traditional design-oriented topics, an introduction of modal analysis and the use of computational codes with MATLAB®. Special-interest windows summarize essential information and help remind students of prior or background information pertinent to the topic at hand. The author provides an unequaled combination of the study of conventional vibration.

Discipline/Subject
Engineering

Author bio
Daniel J. Inman received his Ph.D. from Michigan State University in Mechanical Engineering in 1980
Short description
This print textbook is available for students to rent for their classes. Digital Signal Processing presents the fundamental concepts and techniques of discrete-time signals, systems and modern digital processing as well as related algorithms and applications for students in electrical engineering, computer engineering, and computer science departments. Covering both time-domain and frequency-domain methods for the analysis of linear, discrete-time systems, the 5e includes a new chapter on multirate digital filter banks and wavelets. Included are numerous examples and over 500 homework and computer problems that emphasize software implementation of digital signal processing algorithms.

Discipline/Subject
Engineering

Author bio
Known as a digital communications expert & inspiring educator John G. Proakis has helped shape electrical engineering and digital communications programs & composed textbooks that have influenced graduate students worldwide.
Short description
For junior/senior undergraduate and first-year graduate courses in Operations Research in departments of Industrial Engineering, Business Administration, Statistics, Computer Science, and Mathematics.

Operations Research provides a broad focus on algorithmic and practical implementation of Operations Research (OR) techniques, using theory, applications, and computations to teach students OR basics. The book can be used conveniently in a survey course that encompasses all the major tools of operations research, or in two separate courses on deterministic and probabilistic decision-making.

Discipline/Subject
Engineering

Author bio
Hamdy A. Taha is a University Professor Emeritus of Industrial Engineering with the University of Arkansas, where he taught and conducted research in operations research and simulation.
Modern Operating Systems
Edition 5
Andrew S. Tanenbaum

Rights sold

9780137618880
Previous edition
Publication date 01-09-2022
Pearson
Pages
RRP $44.99

Cover image coming soon

Short description
For introductory courses in operating systems.
Practical coverage of big-picture concepts

Modern Operating Systems incorporates the latest developments and technologies in operating systems (OS) technologies. Author Andy Tanenbaum's clear and entertaining writing style outlines the concepts every OS designer needs to master. In-depth topic coverage includes processes, threads, memory management, file systems, I/O, deadlocks, interface design, multimedia, performance tradeoffs, and trends in OS design. Case studies explore popular OS and provide real-world context. Tanenbaum also provides information on current research based on his experience as an operating systems researcher.

Discipline/Subject
Engineering

Author bio

Author bio
Author bio
James K. Wight received his B.S. and M.S. degrees in civil engineering from Michigan State University in 1969 and 1970, respectively, and his Ph.D. from the University of Illinois in 1973.
Manufacturing Organization and Management
Edition 7
Harold T Amrine

Short description
Explores the principles, practices, functions and challenges of manufacturing management -- using an approach that is accessible to those with little or no background in any of the areas of manufacturing organization and management.

Discipline/Subject
Engineering (Imports)
Steel Structures
Edition 1
Harry Cole

Rights sold
9780136016465
Previous edition
Publication date 01-09-2022
Pearson
Pages 800
RRP $109.99

Short description

Discipline/Subject
Engineering (Imports)

Author bio
Short description
This collection of engineering case studies presents stories of young engineers faced with challenges that can be solved by applying fundamental engineering ideas. The case studies can be used to present or integrate course material. This title is part of Prentice Hall ESOURCE series. ESOURCE allows professors to select the content appropriate for their freshman/first-year engineering course. Professors can adopt the published manuals as is or use ESOURCE website www.prenhall.com/esource to view and select the chapters they need, in the sequence they want. The option to add their own material or copyrighted material from other publishers also exists.

Discipline/Subject
Engineering (Imports)

Author bio
Dr. James N. Jensen is Professor of Environmental Engineering in the Department of Civil, Structural, and Environmental Engineering at the University at Buffalo.
Short description
This new module was developed to instruct construction supervisors on sustainable construction management techniques, especially as they relate to the construction-phase LEED points targeted for their projects. Key content includes coverage of project sustainability goals, green building materials and technologies, green building methods and processes and more!

Discipline/Subject
Engineering (Imports)
Mechanics and Durability of Solids, Volume II
Edition 1
Franz-Josef Ulm

Rights sold

9780131402829
Previous edition
Publication date 01-06-2022
Pearson
Pages 450
RRP $79.99

Short description

Discipline/Subject
Engineering (Imports)
Short description
Intended for use in the first of a two course sequence in geotechnical engineering usually taught to third- and fourth-year undergraduate civil engineering students. An Introduction to Geotechnical Engineering offers a descriptive, elementary introduction to geotechnical engineering with applications to civil engineering practice.

Discipline/Subject
Engineering (Imports)

Author bio
Bob Holtz, PhD, PE, D.GE, has degrees from Minnesota and Northwestern, he attended the Special Program in Soil Mechanics at Harvard
User's Guide to Engineering, A
Edition 2
James N. Jensen

Short description
With an informal and engaging writing style, A User's Guide to Engineering is an exploration of the world of engineering for future and current engineers. This title is part of Prentice Hall's ESource series. ESource allows professors to select the content appropriate for their freshman/first-year engineering course. Professors can adopt the published manuals as is or use ESource website www.prenhall.com/esource to view and select the chapters they need, in the sequence they want. The option to add their own material or copyrighted material from other publishers also exists.

Discipline/Subject
Engineering (Imports)

Author bio
James Jensen is Associate Professor of Civil Engineering and Director of the Environmental Science Program at the State University of New York at Buffalo. Dr. Jensen received his B.S. in Engineering and Applied Sciences from the California Institute of Technology. He received an MSPH and Ph.D. from the University of North Carolina at Chapel Hill.
Short description
A proven approach to conceptual understanding and problem-solving skills. Engineering Mechanics: Statics & Dynamics excels in providing a clear and thorough presentation of the theory and application of engineering mechanics. Engineering Mechanics empowers students to succeed by drawing upon Professor Hibbeler's decades of everyday classroom experience and his knowledge of how students learn. The text is shaped by the comments and suggestions of hundreds of reviewers in the teaching profession, as well as many of the author's students. The author carefully developed each new video to expertly demonstrate how to solve problems, model the best way to reach a solution and give students extra opportunities to practice honing their problem-solving skills.

Discipline/Subject
Engineering (Imports)

Author bio
R.C. Hibbeler graduated from the University of Illinois at Urbana with a BS in Civil Engineering (majoring in Structures) and an MS in Nuclear Engineering. He obtained his PhD in Theoretical and Applied Mechanics from Northwestern University.
Revel for Fundamentals of HVACR -- Access Card
Edition 4
Carter Stanfield

Rights sold
9780136840473
Previous edition 9780134486161
Publication date 02-07-2021
Pearson
Pages
RRP $89.99

Short description
DIGITAL UPDATE available for Fall 2022 classes For courses in HVACR. Fundamentals of HVACR is a plain-language account of the principles of heating, ventilation, air conditioning and refrigeration. The text is comprehensive enough to serve as the basis of both HVACR courses and entire HVACR programs. Units are short and digestible, presenting complex material clearly and concisely. Practical tips and examples offer context and deepen understanding. The 4e has been updated and revised to meet current industry standards and requirements.

Discipline/Subject
Engineering (Imports)

Author bio
Carter Stanfield was program director of the Air Conditioning Technology Department at Athens Technical College, where he taught full time from 1976 until his retirement in 2016. He currently teaches part time there.
Short description
For one/two-semester, undergraduate-level courses in Electrical Machinery. Retaining the student-friendly style of the 1e, this unique text fills a gap in the available Electronics and Computer Technology texts by devoting more time to current industrial requirements. It presents AC machines and transformers before DC machines, motors before generators, gives more attention to machine characteristics and makes extensive use of NEMA standards and tables. The “self-contained” nature of each chapter gives instructors significant freedom in course development.

Discipline/Subject
Engineering (Imports)
Short description
This exceptionally produced trainee guide features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes Hand Tools for Instrumentation, Electrical Safety, Power Tools for Instrumentation, Electrical Systems for Instrumentation, Metallurgy for Instrumentation, Fasteners, Instrumentation Drawings and Documents, Part One, Gaskets and Packing, Lubricants, Sealants, and Cleaners, Flow, Pressure, Level, and Temperature, Tubing, Piping – 2" and Under and Hoses.

Discipline/Subject
Engineering (Imports)
Modern Engineering Mathematics
Edition 6
Glyn James

Short description
For first-year undergraduate modules in Engineering Mathematics. Develop core understanding and mathematics skills within an engineering context. Modern Engineering Mathematics 6e by Professors Glyn James and Phil Dyke, draws on the teaching experience and knowledge of three co-authors, Matthew Craven, John Searl and Yinhui Wei, to provide a comprehensive course textbook explaining the mathematics required for students studying first-year engineering.

Discipline/Subject
Engineering

Author bio
Glyn James was most recently Emeritus Professor in Mathematics at Coventry University. Glyn James passed away in October 2019, his enthusiastic input was sorely missed. Phil Dyke is Professor of Applied Mathematics at the University of Plymouth.
Short description
This book is created for undergraduate courses in Mechanical, Industrial, Metallurgical, and Materials Engineering Programs. It is also used for graduate courses in Manufacturing Science and Engineering. This comprehensive, up-to-date text has balanced coverage of the fundamentals of materials and processes, adopts an analytical approach, and focuses on applications in manufacturing engineering. Students using this text will be able to properly assess the capabilities, limitations, and potential of manufacturing processes and their competitive aspects.

Discipline/Subject
MGE: Engineering (Mech Ed)
Short description
Unrivaled problem sets, notable scientific accuracy and currency and remarkable clarity have made Chemistry: The Central Science the leading general chemistry text for more than a decade. Trusted, innovative, and calibrated, the text increases conceptual understanding and leads to greater student success in general chemistry by building on the expertise of the dynamic author team of leading researchers and award-winning teachers.

Discipline/Subject
MGE: Engineering (Mech Ed)
Short description
For decades, H. Scott Fogler’s Elements of Chemical Reaction Engineering has been the world's dominant chemical reaction engineering text. This Sixth Edition and integrated Web site deliver a more compelling active learning experience than ever before. Using sliders and interactive examples in Wolfram, Python, POLYMATH, and MATLAB, students can explore reactions and reactors by running realistic simulation experiments.

Discipline/Subject
GE: Engineering (Global Ed)

Author bio
H. Scott Fogler is the Ame and Catherine Vennema Professor of Chemical Engineering and the Arthur F. Thurnau Professor at the University of Michigan
Short description
For senior-year undergraduate and first-year graduate courses in robotics. Since its original publication in 1986, Craig's Introduction to Robotics has been the leading textbook for teaching robotics at the university level. Blending traditional mechanical engineering material with computer science and control theoretical concepts, the text covers a range of topics, including rigid-body transformations, forward & inverse positional kinematics, velocities & Jacobians of linkages, dynamics, linear & non-linear control, force control methodologies, mechanical design aspects and robotic programming.

Discipline/Subject
MGE: Engineering (Mech Ed)
Since joining the University of Michigan in 1984, Professor Ulaby has directed numerous interdisciplinary projects aimed at the development of high-resolution satellite radar sensors for mapping Earth's terrestrial environment. He also served as the founding director of the NASA-funded Center for Space Terahertz Technology.
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### Introduction to Electrical Engineering

- Electric Circuits, Global Edition, 11e 2019
  - James W. Nilsson, Susan Riedel
  - 9781292026104

- Hughes Electrical and Electronic Technology, 12e 2016
  - Edward Hughes, John Hiley, Ian McIntenzie-Smith, Keith Brown
  - 9781292039548

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  - 9781292014064

- Electrical Engineering: Concepts and Applications, 1e 2012
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  - 9780738752073

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  - 9781292233124

### Circuits and Electronics

  - Robert L. Boylestad
  - 9781292098555

- Principles of Electric Circuits: Conventional Current, 6e 2021
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  - Gene F. Franklin, J. David Powell
  - 9781292274522

- Modern Control Systems, Global Edition, 14e 2022
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  - TBD

- Mechatronics: Electronic Control Systems in Mechanical and Electrical Engineering, 7e 2019
  - W. Bolton
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  - Morris R. Mano, Charles R. Kime, Tom Martin
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- Designing User Experience: A guide to HCI, UX and interaction design, 4e 2019
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  - John G. Proakis, Masoud Salehi
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  - 9781292156200

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  - Simon Haykin
  - 97812927574083

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- Communication Systems
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- MyLab Math
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## Engineering: Mechanical

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- Mechanics of Materials in SI Units, 10e 2018
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  Mikel Groover 9781292076119
  Lucy C. Moore, Daniel L. Babcock 9780133932237
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  Sesto Kalpakjian, Stephen Schmid 9788125792774

### Pre-Programming
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- Modern Control Systems, Global Edition, 14e 2022
  Richard C. Dorf, Robert H. Bishop 9781292020760
  Charles L. Phillips, Troy Nagle, James Brickley, Aranya Chakrabortty 9781292020632
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- Mastering Engineering
- MyLab Math
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- Enhanced eBook
Short description
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Discipline/Subject
MGE: Computer Science (Mech Ed)

Author bio
Paul J. Deitel, CEO and Chief Technical Officer of Deitel Associates, Inc., is an MIT graduate with 38 years of computing and corporate training experience and is an Oracle Java Champion and a Microsoft MVP (2012-2014).
Short description
In Computer Networks Tanenbaum et al. explain how networks work from the inside out. They start with the physical layer of networking, computer hardware and transmission systems, then work their way up to network applications. Each chapter follows a consistent approach. The book presents key principles, then illustrates the utilizing real-world example networks that run through the entire book. The 6th Edition is updated throughout to reflect the most current technologies and the chapter on network security is rewritten to focus on modern security principles and actions.

Discipline/Subject
MGE: Computer Science (Mech Ed)
Author bio
Stuart Russell was born in 1962 in Portsmouth, England. He received his B.A. with first-class honours in physics from Oxford University in 1982, and his Ph.D. in computer science from Stanford in 1986.
Starting Out with Python [Global Edition]
Edition 5
Tony Gaddis

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9781292408637
Previous edition 9781292225753
Publication date 29-06-2021
Pearson
Pages
RRP £54.99

Short description
This ISBN provides access to Pearson MyLab Programming. Pearson eText is included. A clear and student-friendly introduction to the fundamentals of Python in Starting Out with Python 5e 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.

Discipline/Subject
MGE: Computer Science (Mech Ed)

Author bio
Tony Gaddis is the principal author of the Starting Out With series of textbooks. Tony has two decades of experience teaching computer science courses, primarily at Haywood Community College.
Short description
For courses in Networking/Communications. Motivate your students with a top-down, layered approach to computer networking. Unique among computer networking texts, the 8e, Global Edition, of the popular Computer Networking: A Top Down Approach builds on the authors' 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.

Discipline/Subject
MGE: Computer Science (Mech Ed)
Short description
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Discipline/Subject
MGE: Computer Science (Mech Ed)

Author bio
Dr. Liang earned his Ph.D. in Computer Science from the University of Oklahoma in 1991, and his M.S. & B.S. in Computer Science from Fudan University in Shanghai, China in 1986 and 1983.