



Pearson

HED Catalogue:
Engineering & Computer
Science

Autumn 2021

Titles Publishing: 2020
- 2022

Dynamics of Structures - Pearson eText

Edition 6

Anil K. Chopra



Pearson



Cover image
coming soon

Rights sold

9780137602605

Previous edition 9780134555126

Publication date 01-02-2022

Pearson

Pages

RRP \$54.99

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

Fundamentals of Web
Development - Pearson eText
Edition 3
Randy Connolly



Rights sold

9780137610822

Previous edition

Publication date 28-05-2021

Pearson

Pages

RRP \$34.96

Short description

Discipline/Subject
Computer Science

Author bio

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

C How to Program [Rental Edition]

Edition 9

Paul J. Deitel

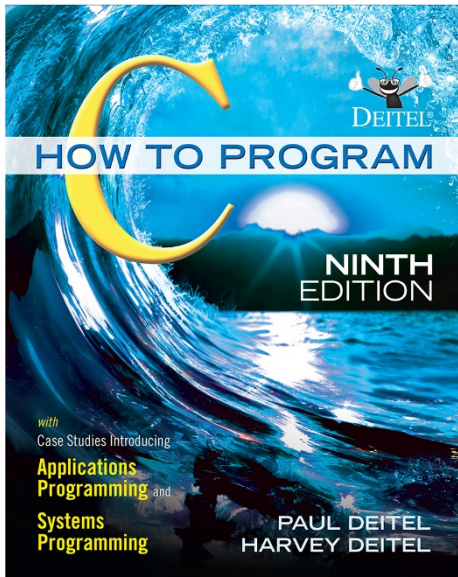


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9780137398393

Previous edition

Publication date 22-06-2021

Pearson

Pages 832

RRP \$74.99

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

Modern Control Systems - Pearson eText

Edition 14

Richard C. Dorf



Pearson



Cover image
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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

Basics of Web Design - Pearson eText

Edition 6

Terry Felke-Morris



Pearson



Cover image
coming soon

Rights sold

9780136921820

Previous edition

Publication date 01-02-2021

Pearson

Pages

RRP \$34.96

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

Starting out with Programming Logic - Pearson eText

Edition 6

Tony Gaddis



Pearson



Pearson

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9780137602018

Previous edition 9780137400065

Publication date 15-06-2022

Pearson

Pages

RRP \$44.99

Short description

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

Author bio

Tony has nearly two decades of experience teaching computer science courses, primarily at Haywood Community College.

Starting out with Python - Revel for

Edition 6

Tony Gaddis



Pearson



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9780137619153

Previous edition 9780135116517

Publication date 15-06-2022

Pearson

Pages

RRP \$89.99

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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.

Elementary Surveying [Rental Edition]

Edition 16

Charles D. Ghilani



Pearson



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9780136822806

Previous edition 9780134604657

Publication date 13-01-2021

Pearson

Pages 992

RRP \$74.99

Cover image coming soon

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.

Mechanics of Materials - Pearson eText

Edition 11

Russell C. Hibbeler



Pearson



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9780137605385

Previous edition

Publication date 01-02-2022

Pearson

Pages

RRP \$54.99

Short description

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



Pearson

**Modified Mastering
Engineering**

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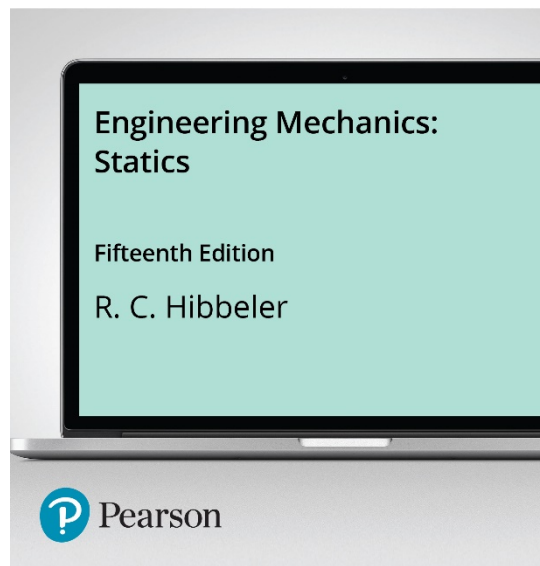
Previous edition 9780133922448

Publication date 01-06-2021

Pearson

Pages 672

RRP \$89.99



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

Modified Mastering Engineering with Person eText Engineering Mechanics: Dynamics

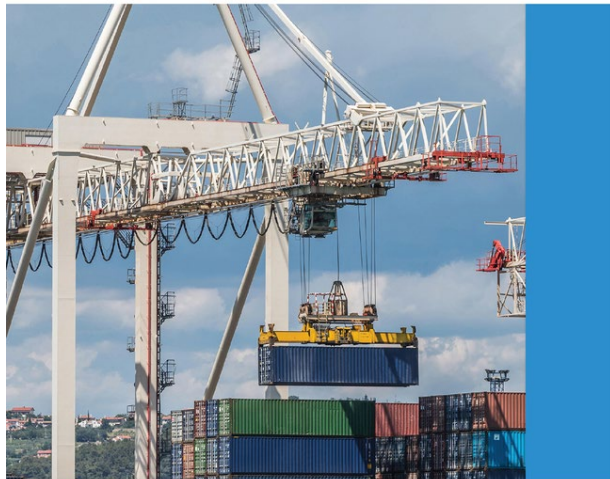
Edition 15

Russell C. Hibbeler



Pearson

Engineering Mechanics
**STATICS &
DYNAMICS**
Fifteenth Edition



R. C. HIBBELER

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Previous edition

Publication date 01-10-2021

Pearson

Pages

RRP \$119.99

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

Engineering Vibration [Rental Edition]

Edition 5

Daniel J. Inman



Pearson



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9780136809852

Previous edition 9780132871693

Publication date 22-04-2021

Pearson

Pages 736

RRP \$74.99

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 unequalled 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

Introduction to Python Programming - Revel for

Edition 3

Y. Daniel Liang



Pearson



Pearson

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9780137621415

Previous edition 9780135187753

Publication date 15-06-2022

Pearson

Pages

RRP \$89.99

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.

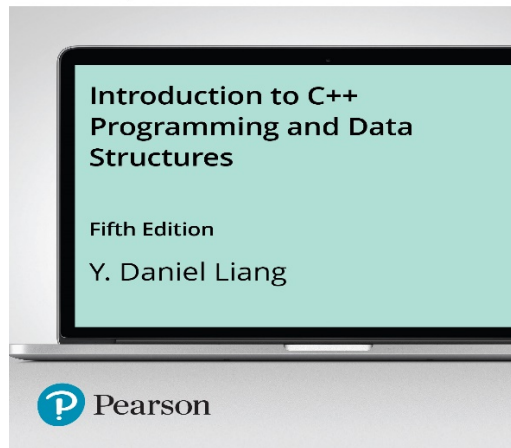
Introduction to C++ Programming - Revel for Edition 5 Y. Daniel Liang



Pearson

Revel

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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 interweaved 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.

Electric Circuits - Pearson eText

Edition 12

James W. Nilsson



Pearson



Pearson

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9780137648160

Previous edition

Publication date 01-02-2022

Pearson

Pages

RRP \$64.99

Short description

Discipline/Subject
Engineering

Author bio

Contemporary Engineering Economics - Pearson eText

Edition 7

Chan S Park



Pearson



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9780137633111

Previous edition

Publication date 01-02-2022

Pearson

Pages

RRP \$74.99

Short description

Discipline/Subject
Engineering

Author bio

Digital Signal Processing [Rental Edition]

Edition 5

John G. Proakis



Pearson



Pearson

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9780137348244

Previous edition 9780131873742

Publication date 19-02-2021

Pearson

Pages 1168

RRP \$74.99

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

Operations Research - Pearson eText

Edition 11

Hamdy A. Taha



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9780137625727

Previous edition 9780134444017

Publication date 01-02-2022

Pearson

Pages

RRP \$54.99

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



Pearson



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9780137618880

Previous edition

Publication date 01-09-2022

Pearson

Pages

RRP \$44.99

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Short description

Discipline/Subject
Engineering

Author bio

Reinforced Concrete [Rental Edition]

Edition 8

James K. Wight



Pearson



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9780136834144

Previous edition

Publication date 05-01-2021

Pearson

Pages 1088

RRP \$74.99

Cover image
coming soon

Short description

This print textbook is available for you to rent for your classes. Reinforced Concrete: Mechanics and Design uses the theory of reinforced concrete design to teach the basic scientific and artistic principles of civil engineering. Examples and practice problems help you develop your engineering judgement and learn to apply complicated engineering concepts to real-world scenarios. The 8e is up to date with the 2019 Edition of the ACI 318-19 Building Code for Structural Concrete, giving you access to accurate information that can be applied outside of the classroom.

Discipline/Subject

Engineering

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.