ENGINEERING
Learning solutions from Cengage
## CONTENTS

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Materials Science</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>5</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>8</td>
</tr>
<tr>
<td>Electrical &amp; Computer Engineering</td>
<td>10</td>
</tr>
</tbody>
</table>

**MINDTAP MOBILE APP**

The MindTap Mobile App was built according to extensive research with students to determine how mobile access could benefit them and includes:

- Flashcards
- Quizzes
- Notifications

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MindTap is a digital learning solution that allows you to easily customise and combine learning tools such as readings, interactive content and assessment activities to create a personalised learning path for your students. Auto-grading and real-time analytics save you time in setting and grading assessments and actively monitoring your students’ progress.

**MindTap for Engineering** gives you complete control of your course, to provide engaging content, to challenge every individual and to empower student success. With MindTap, you have complete ownership of your content to deliver a seamless student experience that aligns exactly with the way you teach your course:

- Customise content, emphasise the most important topics and add your own material or notes to the learning path.
- Give your students extra resources including links and videos of Engineering applications to help contextualise Engineering concepts and help students focus on their future Engineering careers.
- Support students’ understanding of complex Engineering problems with automatically graded problem sets which give each student a variation of the same problem.

Find out more at [cengage.co.uk/mindtap](http://cengage.co.uk/mindtap)
ENGINEERING MATHEMATICS

**Advanced Engineering Mathematics, SI Edition**

8th Edition  
Peter V. O'Neill, University of Alabama  
© 2018 | 1024pp | 9781337274524

Now you can make rigorous mathematical topics accessible to your students by emphasizing visuals, numerous examples, and interesting mathematical models with O'Neill's Advanced Engineering Mathematics. New "Math in Context" broadens the engineering connections for your students by clearly demonstrating how mathematical concepts are applied to current engineering problems. You have the flexibility to select additional topics that are best for your individual course, including many new web modules.

**CONTENTS**

- Part I: Ordinary Differential Equations
  1. First-Order Differential Equations
  2. Second-Order Differential Equations
  3. The Laplace Transform
  4. Eigenfunction Expansions
- Part II: Partial Differential Equations
  5. The Heat Equation
  6. The Wave Equation
  7. Laplace's Equation
  8. Special Functions and Applications
- Part III: Matrices and Linear Algebra
  9. Transform Methods of Solution
  10. Vectors and the Vector Space R^n
  11. Matrices, Determinants and Linear Systems
  12. Eigenvalues, Diagonalization and Special Matrices
- Part IV: Systems of Differential Equations
  13. Systems of Linear Differential Equations
  14. Nonlinear Systems and Qualitative Analysis
- Part V: Vector Analysis
  15. Vector Differential Calculus
  16. Vector Integral Calculus
  17. Fourier Analysis
  18. Fourier Transforms
  19. Complex Numbers and Functions
- Part VI: Fractional Calculus
  20. Integration
  21. Series Representations of Functions
  22. Singularities and the Residue Theorem
  23. Conformal Mappings
- Part VII: Complex Functions
  24. Conformal Mappings
  25. Series Representations of Functions
  26. Basic User-Defined Functions
  27. Advanced Features Of User-Defined Functions

ENGINEERING COMPUTING

**Essentials of MATLAB® Programming**

International Edition  
Stephen J. Chapman, British Aerospace, Australia  
© 2018 | 512pp | 9781305970717

Introduce the MATLAB language to your students and show how to use it to solve typical problems with the very successful Essentials of MATLAB® Programming. Author Stephen Chapman emphasizes problem-solving skills throughout this edition as he presents MATLAB as a technical programming language. The book clearly shows students how to write clean, efficient and well-documented programs, while simultaneously introducing them to many of the practical functions of MATLAB. The first seven chapters are ideal for an “Introduction to Programming and Problem Solving” course for undergraduate engineering students. The last two chapters address more advanced topics of additional data types and plot types, cell arrays, structures, and new MATLAB handle graphics.

**CONTENTS**

- 1. Introduction To Matlab
- 2. Matlab Basics
- 3. Two-Dimensional Plots
- 4. Branching Statements And Program Design
- 5. Loops And Vectorization
- 6. Basic User-Defined Functions
- 7. Advanced Features Of User-Defined Functions
- 8. Additional Data Types And Plot Types
- 9. Cell Arrays, Structures, And Handle Graphics
- Appendix A: Utf-8 Character Set
- Appendix B: Matlab Input / Output Functions
- Appendix C: Answers To Quizzes

**MATLAB® Programming for Engineers**

International Edition  
Stephen J. Chapman, British Aerospace, Australia  
© 2016 | 672pp | 97811111576721

Emphasizing problem-solving skills throughout, this fifth edition of Chapman’s highly successful book teaches MATLAB as a technical programming language, showing students how to write clean, efficient, and well-documented programs, while introducing them to many of the practical functions of MATLAB. The first eight chapters are designed to serve as the text for an “Introduction to Programming and Problem Solving” course for first-year engineering students. The remaining chapters, which cover advanced topics such as I/O, object-oriented programming, and Graphical User Interfaces, may be covered in a longer course used as a reference by engineering students or practicing engineers who use MATLAB.

**CONTENTS**

- 1. Doing the Right Thing
- 2. The Engineering Profession
- 3. Enhance Human Welfare
- 4. Hold Paramount
- 5. Safety of the Public
- 6. Professional Development
- 7. Solicit or Accept Gratuities
- 8. Self-Laudatory Language
- 9. Contributions in Order to Secure Work
- 10. Professional Development of Others
- 11. Overseas Work
- 12. Uphold the Honor and Dignity
- 13. Faithful Agents
- 14. Avoid Conflict of Interest
- 15. Objective and Truthful Manner
- Epilogue
- Index

**CHEMICAL ENGINEERING**

**Fundamentals of Chemical Engineering Thermodynamics, SI Edition**

1st Edition  
Kevin D. Dahm, Rowan University  
Donald P. Visco, Jr., Associate Dean, The University of Akron  
© 2015 | 800pp | 9781111580711
The Science and Engineering of Materials, SI Edition
7th Edition
Donald R. Askeland, Missouri University of Science and Technology
Wendelin J. Wright, Bucknell University
© 2016 | 967pp | 9781305077102

This updated 7th edition helps engineering students develop an understanding of the relationship between structure, processing, and properties of materials. By selecting the appropriate topics from the book's wealth of material, instructors can emphasize materials, provide a general overview, concentrate on mechanical behavior, or focus on physical properties. Because the book has more material than is needed for a one-semester course, students will also have a useful reference for subsequent courses in manufacturing, materials, design, or materials selection. The Askeland text emphasizes a science-based approach to materials engineering that highlights how the structure of materials at various length scales gives rise to materials properties. This connection between structure and properties is key to innovating with materials, both in the synthesis of new materials and enabling new applications with existing materials.

CONTENTS
1. Introduction to Materials Science and Engineering
2. Atomic Structure
3. Atomic and Ionic Arrangements
4. Imperfections in the Atomic and Ionic Arrangements
5. Atom and Ion Movements in Materials
6. Mechanical Properties: Part One
7. Mechanical Properties: Part Two
8. Strain Hardening and Annealing
9. Principles of Solidification
10. Solid Solutions and Phase Equilibrium
11. Dispersion Strengthening and Eutectic Phase Diagrams
12. Dispersion Strengthening by Phase Transformations and Heat Treatment
13. Heat Treatment of Steels and Cast Irons
14. Nonferrous Alloys
15. Ceramic Materials
16. Polymers
17. Composites: Teamwork and Synergy in Materials
18. Construction Materials
19. Electronic Materials
20. Magnetic Materials
21. Photonic Materials
22. Thermal Properties of Materials
23. Corrosion and Wear
Appendix A: Selected Physical Properties of Materials
Appendix B: The Atomic and Ionic Radii of Selected Elements

Introduction to Mechanical Engineering
An Introduction to Mechanical Engineering, SI Edition
4th Edition
Jonathan Wickle, Iowa State University
Kemper Lewis, University at Buffalo – SUNY
© 2017 | 432pp | 9781305635753

Introduce your students to today's ever changing field of mechanical engineering as you instill an appreciation for how engineers design hardware that builds and improves societies around the world. This fourth edition is ideal for students in their first or second year of a mechanical engineering course. It is also useful for students in closely related fields. The authors effectively balance timely treatments of technical problem-solving skills, design, engineering analysis, and modern technology to provide the solid mechanical engineering foundation students need for future success.

CONTENTS
1. The Mechanical Engineering Profession
2. Mechanical Design
3. Technical Problem-Solving and Communication Skills
4. Forces in Structures and Machines
5. Thermal and Energy Systems
6. Fluids Engineering
7. Motion and Power Transmission
Appendix A: Greek Alphabet
Appendix B: Trigonometry Review

Mechanisms and Machines: Kinematics, Dynamics and Synthesis, SI Edition
1st Edition
Michael M. Stanisic, University of Notre Dame
© 2015 | 696pp | 9781285057569

Fundamentals of Mechatronics, SI Edition
1st Edition
Musa Jouaneh, University of Rhode Island
© 2013 | 399pp | 9781111569020

To request an inspection copy please visit cengage.co.uk/order-inspection-copy
Principles of Heat Transfer

8th Edition
Frank Kreith, University of Colorado
Raj M. Manglik, University of Cincinnati
© 2018 | 784pp | 9781305387102

Principles of Heat Transfer provides a comprehensive engineering approach that is ideal for a one-semester course in heat transfer. This relevant book recognizes that in today's world, computational analysis is more critical than rote mathematical solutions to heat transfer problems. However, the authors also incorporate an effective analytic approach. With this approach, students gain a clear understanding of the physics involved and learn how to utilize tools for analyzing more complex problems. The text also emphasizes applications to current engineering challenges in renewable energy, bioengineering, microelectronics, materials processing, and space exploration.

CONTENTS
1. Basic Modes of Heat Transfer
2. Steady Heat Conduction
3. Transient Heat Conduction
4. Numerical Analysis of Heat Conduction
5. Analysis of Convection Heat Transfer
6. Forced Convection Over External Surfaces
7. Forced Convection Inside Tubes and Ducts
8. Natural Convection
9. Heat Transfer with Phase Change
10. Heat Exchangers
11. Heat Transfer by Radiation

Appendix 1: The International System of Units
Appendix 2: Data Tables
Appendix 3: Tridiagonal Matrix Computer Programs
Appendix 4: Commercial Computer Codes for Heat Transfer
Appendix 5: Heat Transfer Literature Index

Heat and Mass Transfer, SI Edition

2nd Edition
Kurt Rolle, PhD, P.E., University of Wisconsin
© 2016 | 696pp | 9781305112582

Teach students the fundamental principles of Newtonian dynamics and how to apply these principles to the analysis of real-world engineering with Pytel and Kiusalaas' Engineering Mechanics: Dynamics. Students learn how to analyze problems successfully before substituting numbers into formulas. This approach prepares students for actual engineering situations that do not adhere to standard formulas. This edition begins with the analysis of particle dynamics before considering the motion of rigid-bodies. You can easily limit your course to covering only particle motion. The text discusses in detail the three fundamental methods of problem solution: force-mass-acceleration, work-energy, and impulse-momentum. The authors also cover the use of numerical methods to solve dynamics problems. These clearly identified sections let you use as many numerical methods as desired.

CONTENTS
1. Introduction to Dynamics
2. Dynamics of a Particle: Rectangular Coordinates
3. Dynamics of a Particle: Curvilinear Coordinates
4. Work-Energy and Impulse-Momentum Principle for a Particle
5. Dynamics of Particle Systems
6. Planar Kinematics of Rigid Bodies
9. Rigid-Body Dynamics in Three Dimensions
10. Vibrations
11. Virtual Work and Potential Energy
Appendix A: Numerical Integration
Appendix B: Finding Roots of Functions
Appendix C: Densities of Common Materials
Answers, Index
A must-have resource for all foundation engineering courses, Principles of Foundation Engineering, 9th Edition provides a careful balance between current research and practical field applications as it introduces civil engineering students to the core concepts and applications of foundation analysis design. Throughout this best-selling book, Dr. Das and Dr. Sivakugan emphasize how to develop the critical judgment civil engineers need to properly apply theories and analysis to the evaluation of soils and foundation design. This new edition includes three new chapters that highlight developing topics. This edition also provides a wealth of worked-out examples and multiple new figures that emphasize the skills most critical for students to master as successful civil engineers.

CONTENTS
1. Introduction
2. Geotechnical Properties of Soil
3. Natural Soil Deposits and Subsoil Exploration
4. Instrumentation and Monitoring in Geotechnical Engineering
5. Soil Improvement and Ground Modification
7. Ultimate Bearing Capacity of Shallow Foundations: Special Cases
8. Vertical Stress Increase in Soil
9. Settlement of Shallow Foundations
10. Mat Foundations
11. Load and Resistance Factor Design (LRFD)
12. Pile Foundations
13. Drilled Shaft Foundations
14. Piled Rafts -- An Overview
15. Foundations on Difficult Soils
16. Lateral Earth Pressure
17. Retaining Walls
18. Sheet Pile Walls
19. Braced Cuts

Prepare your students for today's civil engineering challenges, providing them with a broad overview of the materials they will use as civil engineers in their studies and careers. Civil Engineering Materials not only covers traditional materials, such as concrete, steel, timber, and soils, but also explores non-traditional materials, such as synthetics and industrial-by products. Numerous practical examples and straightforward explanations help your students gain a full understanding of the characteristics and behavior of various materials, how they interact, and how to best utilize and combine traditional and non-traditional materials. While emphasizing the use of civil engineering materials, the authors also carefully address the important issues related to sustainability to give students a broader context of how materials are used in contemporary applications.

CONTENTS
1. Engineering Behavior of Materials -- General Introduction
2. Some Fundamentals
3. Chemistry of Materials
4. Soils
5. Rocks
6. Aggregates
7. Geosynthetics
8. Asphalt Cement and Asphalt Concrete
9. Cement and Concrete
10. Metals and Alloys
11. Polymers, Ceramics and Composites
12. Timber
13. Sustainable Use of Construction Materials

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ROAD/TRAFFIC ENGINEERING

Traffic and Highway Engineering, SI Edition
5th Edition
Nicholas J. Garber, University of Virginia
Lester A. Hoel, University of Virginia
© 2015 | 1248pp | 9781133607083

This text focuses exclusively on traffic and highway engineering beginning with a discussion of the pivotal role transportation plays in our society, including employment opportunities, historical impact, and the impact of transportation on our daily lives. This approach gives students a sense of what the field is about as well as an opportunity to consider some of its challenges. Later chapters focus on specific issues facing transportation engineers. The text uses pedagogical tools such as worked problems, diagrams and tables, reference material, and realistic examples to demonstrate how the material is applied.

ENVIRONMENTAL ENGINEERING/SUSTAINABILITY

Sustainable Energy, SI Edition
2nd Edition
Richard Dunlap, Institute for Research in Materials at Dalhousie University
© 2019 | 736 pp | 9781285471570

Help students explore present and future energy needs as well as options for continued use of fossil fuels and alternative energy sources with Dunlap’s Sustainable Energy. Individual chapters thoroughly investigate each energy approach as the book covers both current energy production and future strategies.

STEEL DESIGN

Steel Design
6th Edition
William T. Segui, The University of Memphis
© 2018 | 800pp | 9781337094740

Introduce the fundamentals of structural steel design with Segui’s new 6th edition. Rather than focus on the integrated design of buildings, it takes a unique approach by emphasizing the design of members and their connections. This book is designed to give you the flexibility to easily teach LRFD (Allowable Stress Design), ASD (Allowable Stress Design), or both, as your time-permits. It encourages the application of fundamental principles for design procedures as well as for practical design, all the while blending in a strong theoretical approach to enhance student development. While the book is ideal for all undergraduate engineering students, later chapters can also be used in graduate courses.

CONENTS
1. Introduction
2. Concepts in Structural Steel Design
3. Tension Members
4. Compression Members
5. Beams
6. Beam-columns
7. Simple Connections
8. Eccentric Connections
9. Composite Construction
10. Plate Girders
Appendix: Plastic Analysis and Design
Appendix A: Review of Steel Shapes
Appendix B: Computer Software
Appendix C: Conventional Section Properties
Appendix D: Three-Moment Condition

INTRODUCTION TO ENVIRONMENTAL ENGINEERING

Introduction to Environmental Engineering, SI Edition
3rd Edition
P. Aarne Vesilind, Bucknell University
Susan M. Morgan, Southern Illinois University
Lauren G. Heine, Clean Production Action
© 2011 | 592pp | 9780495295853

Structural Analysis

Structural Analysis, SI Edition
5th Edition
Aslam Kassimali, Southern Illinois University
© 2015 | 912pp | 9781285051505

The 5th edition of this classic text by Aslam Kassamali teaches the basic principles of structural analysis using the classical approach. The chapters are presented in a logical order, moving from an introduction of the topic to an analysis of statically determinate beams, trusses and rigid frames, to the analysis of statically indeterminate structures. The text includes solved problems to help illustrate the fundamental concepts. Access to interactive software for analyzing plane framed structures is available for download via the text’s companion website.

CONTENTS
1. Introduction to Structural Analysis and Loads
2. Loads on Structures
3. Equilibrium and Support Reactions
4. Plane and Space Trusses
5. Beams and Frames: Shear and Bending Moments
6. Deflections of Beams: Geometric Methods
8. Influence Lines
9. Application of Influence Lines
10. Analysis of Symmetric Structures
11. Introduction to Statically Indeterminate Structures
12. Approximate Analysis of Rectangular Building Frames
13. Method of Consistent Deformations – Force Method
15. Slope-Deflection Method
16. Moment-Distribution Method
17. Introduction to Matrix Structural Analysis
Appendix A: Areas and Centroids of Geometric Shapes
Appendix B: Review of Matrix Algebra
Appendix C: Computer Software
Appendix D: Three-Moment Equation
CIRCUIT THEORY/ANALYSIS

Electrical Circuits
1st Edition
James S. Kang, California State Polytechnic University
© 2018 | 1056pp | 9781305635210

Introduce your students to electric circuits with common design practices and simulations when you use Kang’s Electric Circuits. This engaging book presents the fundamental concepts of electric circuits alongside examples, exercises and problems. Fresh examples provide students with clear methods for understanding how electric circuits function. Each chapter includes several examples and problems related to circuit design with answers provided for the odd-numbered questions. This allows students to use the questions for self-guided study and practice. Electric Circuits offers comprehensive coverage, from DC circuits and AC circuits to Laplace transformed circuits. MATLAB® scripts for certain examples provide an alternate method for solving circuit problems and give students an effective tool for checking answers and reducing laborious derivations and calculations. The book also includes PSpice® and Simulink® examples to demonstrate electric circuit simulations.

CONTENTS
1. Voltage, Current, Power, and Sources
2. Circuit Laws
3. Circuit Analysis Methods
4. Circuit Theorems
5. Operational Amplifier Circuits
6. Capacitors and Inductors
7. RL and RC Circuits
8. RLC Circuits
9. Phasors and Impedances
10. Analysis of Phasor Transformed Circuits
11. AC Power
12. Three-phase Systems
13. Magnetically Coupled Circuits
14. Laplace Transform
15. Circuits Analysis in the s-Domain
16. First and Second Order Analog Filters
17. Butterworth Filter Design
18. Fourier Series
19. Fourier Transform
20. Two-port Circuits

Microelectronic Circuits: Analysis & Design
International Edition
3rd Edition
Muhammad H. Rashid, University of West Florida
© 2017 | 1360pp | 9781305642805

INTRODUCTION TO ELECTRICAL ENGINEERING

The Digital Information Age
An Introduction to Electrical Engineering
International Edition
2nd Edition
Roman Kuc, Yale University
© 2015 | 400pp | 9781305077737

Electrical Engineering in Context
Smart Devices, Robots & Communications
International Edition
1st Edition
Roman Kuc, Yale University
© 2015 | 608pp | 9781285770116

DIGITAL SIGNAL PROCESSING

Digital Signal Processing Using MATLAB®
A Problem Solving Companion, International
4th Edition
Vinay K. Ingle, Northeastern University
John G. Proakis, Northeastern University
© 2017 | 672pp | 9781305637535

Introduction to Digital Signal Processing using MATLAB®
International Edition
3rd Edition
Robert J. Schilling, Clarkson University
Sandra L. Harris, Clarkson University
© 2017 | 784pp | 9781305636606

DIGITAL LOGIC/DIGITAL DESIGN

Digital Logic and Microprocessor Design with Interfacing
International Edition
2nd Edition
Enoch D. Hwang, La Sierra University
© 2018 | 608pp | 9781305859470

Provide a solid foundation for designing digital logic circuits using Digital Logic and Microprocessor Design with Interfacing. This unique approach combines the use of logic principles and the building of individual components to create data paths and control units so students can build dedicated custom microprocessors and general-purpose microprocessors. Students design simple microprocessors, implement them in real hardware, and interface them to actual devices.

CONTENTS
1. Introduction to Microprocessor Design
2. Fundamentals of Digital Circuits
3. Combinational Circuits
4. Standard Combinational Components
5. Sequential Circuits
6. Finite-state Machines
7. Dedicated Microprocessors
8. General-purpose Microprocessors
9. Interfacing Microprocessors
10. Appendix A – Xilinx Development Tutorial
11. Appendix B – Altera Development Tutorial
12. Appendix C – Verilog Summary
13. Appendix D – VHDL Summary Index

Fundamentals of Logic Design
International Edition
7th Edition
Charles H. Roth, Jr., University of Texas
Larry L. Kinney, University of Minnesota
© 2014 | 816pp | 9781133628484

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IMAGE PROCESSING

Image Processing and Analysis
1st Edition
Stan Birchfield, Clemson University, South Carolina; Microsoft Corporation
© 2018 | 672pp | 9781305638921

Give your students a contemporary treatment of image processing that balances a broad coverage of major subject areas with in-depth examination of the most foundational topics. Birchfield’s Image Processing and Analysis offers a clear presentation that even your beginning students can follow along with higher-level discussions that will challenge your most advanced students. The book effectively balances key topics from the field of image processing in a format that gradually progresses from easy to more challenging material, while consistently reinforcing a fundamental understanding of the core concepts.

CONTENTS
1. Introduction
2. Fundamentals of Imaging
3. Spatial-domain Filtering
4. Binary Image Processing
5. Frequency-domain Processing
6. Color
7. Edges and Features
8. Compression
9. Segmentation
10. Model Fitting
11. Classification
12. Stereo and Motion

Digital Systems Design Using VHDL
International Edition
3rd Edition
Charles Roth, Jr., University of Texas
Lizy Kurian John, University of Texas
© 2018 | 592pp | 9781305638921

Written for an advanced-level course in digital systems design, this new edition integrates the use of the industry-standard hardware description language VHDL into the digital design process. The book begins with a valuable review of basic logic design concepts before introducing the fundamentals of VHDL, concluding with detailed coverage of advanced VHDL topics.

CONTENTS
1. Review of Logic Design Fundamentals
2. Introduction to VHDL
3. Introduction to Programmable Logic Devices
4. Design Example
5. SM Charts and Microprogramming
6. Designing with Field Programmable Gate Arrays
7. Floating-point Arithmetic
8. Additional Topics in VHDL
9. Design of a RISC Microprocessor
10. Hardware Testing and Design for Testability
11. Additional Design Examples
Appendix A: VHDL Language Summary
Appendix B: IEEE Standard Libraries
Appendix C: TEXTIO Package
Appendix D: Projects

POWER SYSTEMS/ELECTRIC MACHINES

Power System Analysis & Design, SI Edition
6th Edition
J. Duncan Glover, Failure Electrical, LLC
Thomas Overbye, University of Illinois,
Mulukutla S. Sarma, Northeastern University
© 2017 | 864pp | 9781305636187

Introduce the basic concepts of power systems as well as the tools students need to apply these skills to real world situations with Power System Analysis and Design. This new edition highlights physical concepts while also giving necessary attention to mathematical techniques. The authors develop both theory and modeling from simple beginnings so students are prepared to readily extend these principles to new and complex situations. Software tools including PowerWorld® Simulation, and the latest content throughout this edition aid students with design issues while reflecting the most recent trends in the field.

CONTENTS
1. Introduction
2. Fundamentals
3. Power Transformers
4. Transmission-line Parameters
5. Transmission Lines: Steady-state Operation
6. Power Flows
7. Symmetrical Faults
8. Symmetrical Components
9. Unsymmetrical Faults
10. System Protection
11. Transient Stability
12. Power system controls.
13. Transmission Lines: Transient Operation
14. Power Distribution

Electric Machines
Principles, Applications and Control Schematics
International Edition
2nd Edition
Dino Zorbas, McGill University, Quebec, Canada
© 2015 | 704pp | 9781133628521

Fundamentals of Electric Drives
2nd Edition
Mohamed El-Sharkawi , University of Washington,
© 2019 | 9781305970960

COMPUTER ARCHITECTURE

Building Cross-Platform Mobile and Web Apps for Engineers and Scientists
An Active Learning Approach, International
1st Edition
Pawan Lingras, Saint Mary’s University, Halifax,
Matt Triff, and Rucha Lingras
© 2017 | 368pp | 9781305637962

WIRELESS COMMUNICATIONS

Introduction to Wireless and Mobile Systems
Annotated International Edition
4th Edition
Dharma P. Agrawal, University of Cincinnati
Qing-An Zeng, North Carolina Agricultural and Technical University
© 2016 | 640pp | 9781305259621

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