



North Bangkok and its partners, and held in the northern Thai city of Chiang Mai in July 2018. Traditionally, IC2IT 2018 provides a forum for exchange on the state of the art and on expected future developments in its field. Correspondingly, this book contains chapters on topics in data mining, machine learning, natural language processing, image processing, networks and security, software engineering and information technology. With them, the editors want to foster inspiring discussions among colleagues, not only during the conference. It is also intended to contribute to a deeper understanding of the underlying problems as needed to solve them in complex environments and, beneficial for this purpose, to encourage interdisciplinary cooperation.

This textbook explores reactive power control and voltage stability and explains how they relate to different forms of power generation and transmission. Bringing together international experts in this field, it includes chapters on electric power analysis, design and operational strategies. The book explains fundamental concepts before moving on to report on the latest theoretical findings in reactive power control, including case studies and advice on practical implementation students can use to design their own research projects. Featuring numerous worked-out examples, problems and solutions, as well as over 400 illustrations, Reactive Power Control in AC Power Systems offers an essential textbook for postgraduate students in electrical power engineering. It offers practical advice on implementing the methods discussed in the book using MATLAB and DlgSILENT, and the relevant program files are available at [extras.springer.com](http://extras.springer.com).

Irwin's Basic Engineering Circuit Analysis has built a solid reputation for its highly accessible presentation, clear explanations, and extensive array of helpful learning aids. Now in a new Eighth Edition, this highly-accessible book has been fine-tuned and revised, making it more effective and even easier to use. It covers such topics as resistive circuits, nodal and loop analysis techniques, capacitance and inductance, AC steady-state analysis, polyphase circuits, the Laplace transform, two-port networks, and much more. For over twenty years, Irwin has provided readers with a straightforward examination of the basics of circuit analysis, including: Using real-world examples to demonstrate the usefulness of the material. Integrating MATLAB throughout the book and includes special icons to identify sections where CAD tools are used and discussed. Offering expanded and redesigned Problem-Solving Strategies sections to improve clarity. A new chapter on Op-Amps that gives readers a deeper explanation of theory. A revised pedagogical structure to enhance learning.

A concise introduction to circuit analysis designed to meet the needs of faculty who want to teach this material in a one semester course. Chapters have been carefully selected from Irwin, Basic Engineering Circuit Analysis, 7E.

This collection of solved electrical engineering problems should help you review for the Fundamentals of Engineering (FE) and Principles and Practice (PE) exams. With this guide, you'll hone your skills as well as your understanding of both fundamental and more difficult topics. 100% problems and step-by-step solutions.

This reader-friendly book has been completely revised to ensure that the learning experience is enhanced. It is built on the strength of Irwin's problem-solving methodology, providing readers with a strong foundation as they advance in the field.

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The Analysis and Design of Linear Circuits, 8th Edition provides an introduction to the analysis, design, and evaluation of electric circuits, focusing on developing the learners design intuition. The text emphasizes the use of computers to assist in design and evaluation. Early introduction to circuit design motivates the student to create circuit solutions and optimize designs based on real-world constraints. This text is an unbound, three hole punched version.

The book presents the methodology applicable to the modeling and analysis of a variety of dynamic systems, regardless of their physical origin. It includes detailed modeling of mechanical, electrical, electro-mechanical, thermal, and fluid systems. Models are developed in the form of state-variable equations, input-output differential equations, transfer functions, and block diagrams. The Laplace-transform is used for analytical solutions. Computer solutions are based on MATLAB and Simulink.

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