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Fiber OpticsPrinciples and PracticesCRC Press

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This text uses intriguing real-world applications to engage readers' interest and show them the practical side of calculus. The book's many applications are related to finance, business, and such general-interest topics as learning curves in airplane production, the age of the Dead Sea Scrolls, Apple and Oracle stock prices, the distance traveled by sports cars, lives saved by seat belts, and the cost of a congressional victory. The Sixth Edition maintains the hallmark features that have made APPLIED CALCULUS so popular: contemporary and interesting applications; careful and effective use of technology, including graphing calculator and spreadsheet coverage; constant pedagogical reinforcement through section summaries, chapter summaries, annotated examples, and extra practice problems; Just-in-Time algebra review material; and a variety of exercises that allow readers to practice and hone their problem-solving skills. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Praise for Accounting Best Practices, Fifth Edition "For a comprehensive, yet easy-to-read guide to fixing those all-too-common shortcomings in your accounting department, look no further than this excellent book. Steve Bragg provides hundreds of fixes, many of them requiring surprisingly little time or cost while providing a handy guide to common implementation pitfalls . . . I would recommend this invaluable book to anyone who is looking to enhance their existing processes, whether due to growth in their business, compliance with Sarbanes-Oxley, or just as part of their ongoing improvement process." —Martyn Webster, CPA, Director of FinanceXenoPort, Inc. "This book is critical to running an efficient and accurate accounting department. The use of RFID technology to track documents is one of many valuable tools in this latest edition. A required read for the demanding accounting manager's role." —Jason Charet, CPA "I've used Steve Bragg's Accounting Best Practices books for years as a source of ideas for improvement. Like the previous editions, the Fifth Edition has a number of new, actionable best practices as well as refinements of those ideas reported in previous editions. The books are broad enough in their perspective so that nearly any organization could find ideas that could pay back the cost of the book many times over." —John Temmerman, Controller Evangelical Lutheran Church in America "What a great resource! I have been in the accounting field for over twenty years, and I was still able to gain insight into improving processes within my office. Thanks for putting it all in one book!" —Tina M. Thomas, CPA, CTP, Controller Goodman & Company, LLP

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. New advances in fiber optic devices, components, and materials make it more important than ever to stay current. Comprising chapters drawn from the author's highly anticipated book Photonics: Principles and Practices, Fiber Optics: Principles and Practices offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics. Using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic, and then demonstrates how these principles apply to real-world applications by guiding you through experimental cases illuminated with numerous illustrations. The book works systematically through fiber optic cables, advanced fiber optic cables, light attenuation in optical components, fiber optic cable types and installations, fiber optic connectors, passive fiber optic devices, wavelength division multiplexing, optical amplifiers, optical receivers, opto-mechanical switches, and optical fiber communications. It also includes important chapters in fiber optic lighting, fiber optics testing, and laboratory safety. Containing several topics presented for the first time in book form, Fiber Optics: Principles and Practices is simply the most modern, detailed, and hands-on text in the field.

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A combination of two texts authored by Patrick Dunn, this set covers sensor technology as well as basic measurement and data analysis subjects, a combination not covered together in other references. Written for junior-level mechanical and aerospace engineering students, the topic coverage allows for flexible approaches to using the combination book in courses. MATLAB® applications are included in all sections of the combination, and concise, applied coverage of sensor technology is offered. Numerous chapter examples and problems are included, with complete solutions available.

The third edition of Measurement and Data Analysis for Engineering and Science provides an up-to-date approach to presenting the methods of experimentation in science and engineering. Widely adopted by colleges and universities within the U.S. and abroad, this edition has been developed as a modular work to make it more adaptable to different approaches from various schools. This text details current methods and highlights the six fundamental tools required for implementation: planning an experiment, identifying measurement system components, assessing measurement system component performance, setting signal sampling conditions, analyzing experimental results, and reporting experimental results. What's New in the Third Edition: This latest edition includes a new chapter order that presents a logical sequence of topics in experimentation, from the planning of an experiment to the reporting of the experimental results. It adds a new chapter on sensors and transducers that describes approximately 50 different sensors commonly used in engineering, presents uncertainty analysis in two separate chapters, and provides a problem topic summary in each chapter. New topics include smart measurement systems, focusing on the Arduino® microcontroller and its use in the wireless transmission of data, and MATLAB® and Simulink® programming for microcontrollers. Further topic additions are on the rejection of data outliers, light radiation, calibrations of sensors, comparison of first-order sensor responses, the voltage divider, determining an appropriate sample period, and planning a successful experiment. Measurement and Data Analysis for Engineering and Science also contains more than 100 solved example problems, over 400 homework problems, and provides over 75 MATLAB® Sidebars with accompanying MATLAB M-files, Arduino codes, and data files available for download.

"For a first course in Materials Sciences and Engineering taught in the departments of materials science, mechanical, civil and general engineering. This text provides balanced, current treatment of the full spectrum of engineering materials, covering all the physical properties, applications and relevant properties associated with engineering materials. It explores all of major categories of materials while also offering detailed examinations of a wide range of new materials with high-tech applications."--Publisher's website.

Immigration is one of the most significant and pressing issues in contemporary France. This is the first comprehensive survey to be published in English covering developments in this field during the last twenty years.

This book develops a solid understanding of the general principles that govern all communications systems. Topics include traditional analog communication techniques such as AM and FM, modern digital systems, radar, wireless, networking, consumer communications systems, and many other areas. Practical applications are stressed with an emphasis on signal processing at a systems level, in order to provide a better background for readers as technology advances and new integrated circuits become available.

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