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Food Processing Technology Project Management for Business, Engineering, and Technology Calm Technology Principles of Modern Technology Satellite Technology Surface Mount Technology Digital Technology Learning and Teaching with Technology Food Processing Technology Satellite Technology Surgical Technology Web Services Satellite Technology Satellite Technology Assistive Technology: Principles and Applications for Communication Disorders and Special Education Digital Technology Dairy Science and Technology Cook & Hussey's Assistive Technologies Reliability Technology Principles of Seed Science and Technology Assurance Technologies Principles and Practices Project Management for Engineering, Business and Technology Renewable Energy Engineering and Technology Assurance Technologies Renewable Energy Engineering and Technology Workbook for Surgical Technology Ultraviolet Light in Food Technology Pottery Technology Workbook for Surgical Technology Additive Manufacturing and 3D Printing Technology Food Processing Technology Microdroplet Technology Biomedical Device Technology Renewable Energy and Green Technology An Executive's Guide to Information Technology Phosphorus in Environmental Technology Digital Technology Pottery Technology Food Processing Technology Electrical Principles and Technology for Engineering

Additive Manufacturing and 3D Printing Technology: Principles and Applications consists of the construction and working details of all modern additive manufacturing and 3D-printing technology processes and machines, while also including the fundamentals, for a well-rounded educational experience. The book is written to help the reader understand the fundamentals of the systems. This book provides a selection of additive manufacturing techniques suitable for near-term application with enough technical background to understand the domain, its applicability, and to consider variations to suit technical and organizational constraints. It highlights new innovative 3D-printing systems, presents a view of 4D printing, and promotes a vision of additive manufacturing and applications toward modern manufacturing engineering practices. With the block diagrams, self-explanatory figures, chapter exercises, and photographs of lab-developed prototypes, along with case studies, this new textbook will be useful to students studying courses in Mechanical, Production, Design, Mechatronics, and Electrical Engineering. A comprehensive, single-source reference on satellite technology and its applications, *Satellite Technology: Principles and Applications, Second Edition* includes the latest developments on the topic. Covering the features and facilities of satellites and satellite launch vehicles, with an emphasis on the fundamental principles and concepts, the authors provide readers with a complete understanding of the technology. This book explains the past, present and future satellite missions, as well as non-communication related applications. Coverage ranges from remote sensing and navigational uses to meteorological and military areas. This second edition contains an additional chapter on earth station design and gives extensive focus to space based weapon systems, satellite interference and future trends in satellite technology. Extra information has also been provided on all of the first edition's topics to enhance the existing coverage. Fully updated new edition with latest technological developments Covers the full range of important applications such remote sensing, weather forecasting, navigational, scientific and military applications Amply illustrated with figures and photographs, this book also contains problems with solutions, which is of benefit students at undergraduate and graduate levels An indispensable book for professionals and students in the field of satellite technology Companion website provides a complete and updated compendium on satellites and satellite launch vehicles This book constitutes a good starting place for the would be ceramist or ceramic analyst. Basic data on how to go about making pottery with chapters on the production sequence, materials used and their preparation, forming, and firing. Lots of terminology and illustrations. The late twentieth century is undoubtedly the age of technology. Each technological development leads to more sophisticated devices and further scientific advances. Because of the pace of change, it is difficult to obtain a broad overview of the way fundamental science is linked to its everyday

applications. Principles of Modern Technology describes the physical principles on which modern technology is based. Four primary areas have been singled out: computers and microelectronics, communications, nuclear energy and space flight. Each topic is treated in a way that gives the reader an insight into the underlying physics which makes the technology possible as well as the orders of magnitude involved. Based on a course taught at the University of Rochester, the book will be useful both as a textbook for courses in applied physics and engineering and as a reference book. It will be of interest to undergraduates taking introductory physics courses and anyone interested in modern technology. The Second Edition features new content, examples, methods, techniques, and best practices Assurance Technologies Principles and Practices is based on the assertion that safety is not a cost, but an excellent investment. According to the authors, more than sixty percent of problems in complex systems arise from incomplete, vague, and poorly written specifications. In keeping with the authors' passion for safety, the text is dedicated to uniting the gamut of disciplines that are essential for effective design applying assurance technology principles, including system safety, reliability, maintainability, human engineering, quality, logistics, software integrity, and system integration. Readers familiar with the first edition of this text will recognize all the hallmarks that have made it a classic in its field. The Second Edition features a host of new examples, methods, techniques, and best practices to bring the text fully up to date with the state of the art in assurance technology. Much new content has been added as well, including four new chapters: Managing Safety-Related Risks Statistical Concepts, Loss Analysis, and Safety-Related Applications Models, Concepts, and Examples: Applying Scenario-Driven Hazard Analysis Automation, Computer, and Software Complexities The text begins with an introduction and overview of assurance technology. Next, readers are provided with fundamental statistical concepts. The chapters that follow explore in depth the approaches and disciplines that make up assurance technology applications. Each chapter is organized into major phases—design, manufacturing, test, and use phase—that help readers understand both how and when to apply particular measures. Throughout the text, readers discover detailed examples that prepare them to manage real-world challenges. References and further reading are provided at the end of each chapter leading to more in-depth discussion on specialized topics. With its extensive use of examples and highly structured approach, this is an excellent course book for students in industrial engineering, systems engineering, risk engineering, and other assurance technology domains. Design and system engineers as well as safety professionals will find the material essential in troubleshooting complex projects and ensuring product, process, and system safety. This Third Edition of Principles of Seed Science and Technology. like the first two editions. is written for the advanced undergraduate student or lay person who desires an introduction to the science and technology of seeds. The first eight chapters present the seed as a biological system and cover its origin, development, composition, function (and sometimes nonfunction), performance and ultimate deterioration. The last seven chapters present the fundamentals of how seeds are produced, conditioned, evaluated and distributed in our modern agricultural society. A new chapter on seed enhancement has been added to reflect the significant advancements made in the last 10 years on new physiological and molecular biology techniques to further enhance seed performance. Because of the fundamental importance of seeds to both agriculture and to all of society, we have taken great care to present the science and technology of seeds with the respect and feeling this study deserves. We hope that this feeling will be communicated to our readers. Furthermore, we have attempted to present information in a straight-forward, easy-to-read manner that will be easily understood by students and lay persons alike. Special care has been taken to address both current state-of-the-art as well as future trends in seed technology. . We believe this Third Edition represents a new level in presenting information that appeals to advanced undergraduate students as well as to those desiring more fundamental information on seed form and function. At the same time, it continues to have the strengths of the first two editions: its readability as well as its comprehensive coverage of the broader area of seed science and technology. Deliver the best patient care before, during, and after surgery with this straight-forward, step-by-step guide to surgical skills and operating room procedures. It provides comprehensive coverage of all the updated AST Core Curriculum, 6th Edition components - health care sciences, technological sciences, patient care concepts, surgical technology, and surgical procedures. A mentoring approach makes even complex skills and techniques easy to understand. User-friendly features such as full-color illustrations, chapter outlines and summaries, review questions, critical thinking exercises, and technique boxes help you focus on the most important concepts and make it easier to retain and recall critical information. Chapter objectives correspond to the latest AST Core Curriculum objectives to ensure you have access to the most reliable information in the operating room. Enhanced critical thinking scenarios at the end of each chapter help you strengthen your critical thinking and clinical decision-making skills and highlight practical applications of key concepts. Additional information on special populations, including bariatric, pregnant, physically or mentally challenged, isolation, trauma, language barrier, and substance abuse patients, highlights important considerations for the surgical technologist regarding transfer, preparation, and procedure set up. Expanded coverage of surgical lasers keeps you up to date with the latest

technology so you can effectively assess the function, assembly, use, and care of equipment in the surgical suite. UPDATED! Coverage reflects the new AST Core Curriculum, 6th Edition to keep you current. NEW! Chapters on Disaster Preparedness and Response and Transplant Surgery offer cutting-edge information on these key topics. Coverage of the Assistant Circulator role, as well as a break down of first and second scrub roles, help you better understand the responsibilities of each member of the surgical team. Microdroplet technology has recently emerged to provide new and diverse applications via microfluidic functionality, especially in various areas of biology and chemistry. This book, then, gives an overview of the principle components and wide-ranging applications for state-of-the-art of droplet-based microfluidics. Chapter authors are internationally-leading researchers from chemistry, biology, physics and engineering that present various key aspects of microdroplet technology -- fundamental flow physics, methodology and components for flow control, applications in biology and chemistry, and a discussion of future perspectives. This book acts as a reference for academics, post-graduate students, and researcher wishing to deepen their understand of microfluidics and introduce optimal design and operation of new droplet-based microfluidic devices for more comprehensive analyte assessments. This is the most comprehensive guide ever written on renewables technology and engineering, intended to cater for the rapidly growing numbers of present and future engineers who are keen to lead the revolution. All the main sectors are covered - photovoltaics, solar thermal, wind, bioenergy, hydro, wave/tidal, geothermal - progressing from the fundamental physical principles, through resource assessment and site evaluation to in-depth examination of the characteristics and employment of the various technologies. The authors are all experienced practitioners, and as such recognise the cross-cutting importance of system sizing and integration. Clear diagrams, photos, tables and equations make this an invaluable reference tool, while worked examples mean the explanations are well-grounded and easy to follow - essential for students and professionals alike. Assessing the most valuable technology for an organization is becoming a growing challenge for business professionals confronted with an expanding array of options. This 2007 book is an A-Z compendium of technological terms written for the non-technical executive, allowing quick identification of what the term is and why it is significant. This is more than a dictionary - it is a concise review of the most important aspects of information technology from a business perspective: the major advantages, disadvantages and business value propositions of each term are discussed, as well as sources for further reading, and cross-referencing with other terms where applicable. The essential elements of each concept are covered in a succinct manner so the reader can quickly obtain the required knowledge without wading through exhaustive descriptions. With over 200 terms, this is a valuable reference for non- and semi-technical managers, executives and graduate students in business and technology management. A unique book that describes the practical processes necessary to achieve failure free equipment performance, for quality and reliability engineers, design, manufacturing process and environmental test engineers. This book studies the essential requirements for successful product life cycle management. It identifies key contributors to failure in product life cycle management and particular emphasis is placed upon the importance of thorough Manufacturing Process Capability reviews for both in-house and outsourced manufacturing strategies. The reader's attention is also drawn to the many hazards to which a new product is exposed from the commencement of manufacture through to end of life disposal. Revolutionary in focus, as it describes how to achieve failure free performance rather than how to predict an acceptable performance failure rate (reliability technology rather than reliability engineering) Author has over 40 years experience in the field, and the text is based on classroom tested notes from the reliability technology course he taught at Massachusetts Institute of Technology (MIT), USA Contains graphical interpretations of mathematical models together with diagrams, tables of physical constants, case studies and unique worked examples Project Management for Engineering, Business and Technology, 5th edition, addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team building, conflict resolution and stress management. The Systems Development Cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This new edition features: Updates throughout to cover the latest developments in project management methodologies New examples and 18 new case studies throughout to help students develop their understanding and put principles into practice A new chapter on agile project management and lean Expanded coverage of program management, stakeholder engagement, buffer management, and managing virtual teams and cultural differences in international projects Alignment with PMBOK terms and definitions for ease of use alongside PMI certifications

Cross-reference to IPMA, APM, and PRINCE2 methodologies Extensive instructor support materials, including an Instructor's Manual, PowerPoint slides, answers to chapter review questions, problems and cases, and a test bank of questions. Taking a technical yet accessible approach, Project Management for Business, Engineering and Technology, 5th edition, is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses as well as for practicing project managers across all industry sectors. Renewable Energy and Green Technology: Principles and Practices is based on the present need to understand the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in global development. Renewable energy is the best and cheapest source of energy as an alternate resource. There is massive potential for renewable energy globally, including in India. The efficient utilization of renewable energy resources could minimize the impact of climate change globally. Generally, renewable energy is generated from essentially inexhaustible sources, including wind power, solar power, geothermal energy, tidal energy, biomass energy, and other sources. Hence, encouraging renewable energy use could save our tomorrow from the climate change perspective and in terms of sustainable food production. This book promotes the exchange of ideas, policy formulation, and collective action to ensure a smooth transition to renewable energy. It describes the technological interventions for reducing environmental and economic damage resulting from the use of conventional energy sources. In this book, the focus is on utilizing various renewable energy sources in diverse sectors. It also elaborates the descriptive methodology of different renewable energies, accompanied by figures and tables. It provides information on biogas energy plants, gasifier technologies, and hydropower technologies, among others, along with their applications. Further, it delves into energy concepts and details significant advantages of the energy resources for sustaining the future world. Lastly, this book will provide instant access to comprehensive, cutting-edge knowledge, making it possible for academicians and researchers to utilize this ever-growing wealth of information. Key features Emphasizes the understanding of the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in the era of global development Focuses on recent trends in renewable energy with principles and practices in relation to climate change Highlights advanced approaches for sustainable use of renewable energy sources Illustrates the methodology for various aspects of renewable energy with figures and charts Discusses the green technology usages of the agriculture and forestry sectors Provides comprehensive cutting-edge information for policymakers in the field of renewable energy Phosphorus in Environmental Technology: Principles and Applications, provides a definitive and detailed presentation of state-of-the-art knowledge on the environmental behaviour of phosphorus and its applications to the treatment of waters and soils. Special attention is given to phosphorus removal for recovery technologies, a concept that has emerged over the past 5-6 years. The book features an all-encompassing approach: the fundamental science of phosphorus (chemistry, geochemistry, mineralogy, biology), key aspects of its environmental behaviour and mobility, industrial applications (treatment, removal, recovery) and the principles behind such applications, novel biotechnologies and, importantly, it also addresses socio-economic issues which often influence implementation and the ultimate success of any new technology. A detailed subject index helps the reader to find their way through the different scientific and technological aspects covered, making it an invaluable reference work for students, professionals and consultants dealing with phosphorus-related environmental technologies. State-of-the-art knowledge on the behaviour of phosphorus and its applications to environmental science and technology. Covers all aspects of phosphorus in the environment, engineered and biological systems; an interdisciplinary text. Web services represent the next generation of web-based technology. They allow new and improved ways for enterprise applications to communicate and integrate with each other and, as such, are having a profound effect on both the worlds of business and of software development. Provides readers with knowledge of practical applications, theoretical models, services and evidence-based solutions in the areas of assistive technology (AT) and augmentative and alternative communication (AAC). This book equips practicing clinicians, educators and students with the necessary background to use AT and AAC with their clients. The use of information and communications technology (ICT) in education is leading to fundamental changes in traditional learning and teaching practices. Increased use of electronic libraries and databases, multimedia courseware and computer-mediated communication is giving rise to an entirely new educational experience, that is prompting educators to assess the potential for improved and enriched learning and teaching models. Learning and Teaching with Technology explores the creative opportunities offered by ICT, and provides an authoritative, rigorous survey of the ways in which ICT is curr. Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications Covering both the technology and its applications, Satellite Technology is a concise reference on satellites for commercial, scientific and military purposes. The book explains satellite technology fully, beginning by offering an introduction to the fundamentals, before covering orbits and trajectories, launch and in-orbit operations, hardware, communication techniques, multiple access techniques, and link design fundamentals. This new edition also includes comprehensive chapters on Satellite Networks and Satellite Technology -

Emerging Trends. Providing a complete survey of applications, from remote sensing and military uses, to navigational and scientific applications, the authors also present an inclusive compendium on satellites and satellite launch vehicles. Filled with diagrams and illustrations, this book serves as an ideal introduction for those new to the topic, as well as a reference point for professionals. Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications - remote sensing, weather, navigation, scientific, and military - including new chapters on Satellite Networks and Satellite Technology - Emerging Trends Covers the full range of satellite applications in remote sensing, meteorology, the military, navigation and science, and communications, including satellite-to-under sea communication, satellite cell-phones, and global Xpress system of INMARSAT The cross-disciplinary coverage makes the book an essential reference book for professionals, R & D scientists and students at post graduate level Companion website provides a complete compendium on satellites and satellite launch vehicles An ideal introduction for Professionals and R & D scientists in the field. Engineering Students. Cross disciplinary information for engineers and technical managers. Note: The ebook version does not provide access to the companion files. The production of environmentally friendly, sustainable, chemical-free food continues to challenge the food industry, spurring on investigations into alternative food processing techniques that are more sophisticated and diverse than current practices. Exploring one of these emerging solutions, Ultraviolet Light in Food Technology: Principles and Applications incorporates the fundamentals of continuous and pulsed UV light generation and propagation; current food regulations; recommendations for optimal UV reactor design, selection, and validation; information on both commercially available and under-development UV sources; and the outlook for future food applications. After reviewing essential terms, definitions, and current applications, the book emphasizes the need to properly assess the physical and chemical properties in foods that influence the effectiveness of UV treatment and impact inactivation kinetics. It also addresses the effects of UV processing on food quality, before considering the engineering aspects of UV light treatment, such as transport phenomena, process calculations, and continuous-flow reactor geometries. The book then describes the principles of validating UV reactors as well as the principles and applications of UV pulsed light, including microbial inactivation in water, meat, fruits, vegetables, and packaging materials. For anyone working in food research, development, and operations, this resource provides broad, accessible information on the science and applications of UV light technology. It shows how UV light irradiation can be used as a physical preservation method in food processing. It's here: the latest edition of the one text you need to master assistive strategies, make confident clinical decisions, and help improve the quality of life for people with disabilities. Based on the Human Activity Assistive Technology (HAAT) model, Assistive Technologies: Principles and Practice, 4th Edition provides detailed coverage of the broad range of devices, services, and practices that comprise assistive technology, and focuses on the relationship between the human user and the assisted activity within specific contexts. Updated and expanded, this new edition features coverage of new ethical issues, more explicit applications of the HAAT model, and a variety of global issues highlighting technology applications and service delivery in developing countries. Human Activity Assistive Technology (HAAT) framework demonstrates assistive technology within common, everyday contexts for more relevant application. Focus on clinical application guides you in applying concepts to real-world situations. Review questions and chapter summaries in each chapter help you assess your understanding and identify areas where more study is needed. Content on the impact of AT on children and the role of AT in play and education for children with disabilities demonstrates how AT can be used for early intervention and to enhance development. Coverage of changing AT needs throughout the lifespan emphasizes how AT fits into people's lives and contributes to their full participation in society. Principles and practice of assistive technology provides the foundation for effective decision-making. NEW! Global issues content broadens the focus of application beyond North America to include technology applications and service delivery in developing countries. NEW! Ethical issues and occupational justice content exposes you to vital information as you start interacting with clients. NEW! More case studies added throughout the text foster an understanding of how assistive technologies are used and how they function. NEW! Updated content reflects current technology and helps keep you current. NEW! Explicit applications of the HAAT model in each of the chapters on specific technologies and more emphasis on the interactions among the elements make content even easier to understand. The first edition of Food Processing Technology was quickly adopted as the standard text by many food science and technology courses. While keeping with the practice of covering the wide range of food processing techniques, this new edition has been substantially expanded to take account of the advances in technology that have taken place since the publication of the first edition. The Second Edition includes new chapters on computer control of processing, novel 'minimal' technologies, and Ohmic heating, and an extended chapter on modified atmosphere packaging. It is a comprehensive - yet basic - text that offers an overview of most unit operations, while at the same time providing details of the processing equipment, operating conditions and the effects of processing on the biochemistry of foods. The book is divided into five parts, in which unit operations are

grouped according to the nature of the heat transfer that takes place. Each chapter describes the formulae required for calculation of processing parameters, sample problems, and the effects on sensory characteristics and nutritional properties of selected foods. By combining food processing theory and calculations with descriptions of commercial practice and results of scientific studies, Food Processing Technology: Principles and Practice, Second Edition helps readers make attractive saleable products and extend the shelf-life of foods. Aimed at all practising design engineers in the mechanical, manufacturing, industrial, electrical and civil engineering areas, this book covers the wide range of assurance technologies regarded by the author as essential for greater reliability and more accurate design and engineering. Its purpose is to unify all existing knowledge dealing with assurance technologies in the design and manufacture of new products and technologies, give the reader an understanding of each technology, and provide guidance in interfacing among technologies. In the author's opinion the lack of interaction among technologies has allowed products and systems to fail in catastrophic ways - for example, at Three Mile Island - and he suggests many recent aircraft accidents may have been avoided if engineers and managers better understood the interplay between quality technology and human factors. A foreword is usually prepared by someone who knows the author or who knows enough to provide additional insight on the purpose of the work. When asked to write this foreword, I had no problem with what I wanted to say about the work or the author. I did, however, wonder why people read a foreword. It is probably of value to know the background of the writer of a book; it is probably also of value to know the background of the individual who is commenting on the work. I consider myself a good friend of the author, and when I was asked to write a few words I felt honored to provide my view of Ray Prasad, his expertise, and the contribution that he has made to our industry. This book is about the industry, its technology, and its struggle to learn and compete in a global market bursting with new ideas to satisfy a voracious appetite for new and innovative electronic products. I had the good fortune to be there at the beginning (or almost) and have witnessed the growth and excitement in the opportunities and challenges afforded the electronic industries' engineering and manufacturing talents. In a few years my involvement will span half a century. This Book Digital Technology: Principles And Practice Has Been Designed To Provide Comprehensive And In-Depth Coverage Of All Important Aspects Of Digital Principles. It Is Primarily Intended For Students Who Wish To Pursue A Career In Digital Technology Systems And Applications. The Book Begins With A Discussion Of Various Number Systems And Their Application In Arithmetic Operations. Following Logic Gates, The Application Of Boolean Algebra And Karnaugh Map Techniques In Solving Digital Problems And Designing Digital Systems Is Taken Up Next. As Multivibrators Form A Very Basic Device In Digital Systems, Bistables, Astables And Monostables (Retriggerable And Non-Retriggerable) Considerable Attention Has Been Paid To Their Operation Characteristics And Applications. The Chapter On Arithmetic Logic Circuits Deals With All Aspects Of Arithmetic Operations Including Their Design And Operation. An Arithmetic Logic Unit Has Also Been Considered. As Counters Are Invariably Required In Almost All Digital Systems, Considerable Attention Has Been Paid To The Design And Operation Of Several Types Of Counters, Including Ring And Johnson Counters. Since Registers Play An Equally Important Role They Have Also Been Discussed. Semiconductor Memories Are The Cornerstone Of Logic Systems And Have Been Discussed In Depth. Analog To Digital Converters And Digital To Analog Converters Being Of Equal Importance Particularly In Music Systems Are Also Discussed. Among The Many Combinational Devices, Too Numerous To Mention, Those That Have Received Special Attention Are Multiplexers, Encoders Decoders Demultiplexers And Display Devices. Interfacing Problems Which Are Encountered When Logic Devices Of Different Families Are Used In The Same Logic Systems Have Been Discussed In Detail. Appropriate for classes on the management of service, product, and engineering projects, this book encompasses the full range of project management, from origins, philosophy, and methodology to actual applications. With this resource, instructors can create custom slide shows and presentations using the 388 illustrations and 53 tables from Biomedical Device Technology: Principles and Design (2nd Ed.). This CD contains all the images, figures and tables included in the textbook in JPG format. Offering readers a concise and yet comprehensive reference, Satellite Technology provides a unique coverage of both the principles and applications in this wide field. This book covers the technological and application aspects of satellites in one volume, ensuring not only extensive coverage of communications-related applications of satellites, but also other important applications such as remote sensing, weather forecasting, navigation, scientific and military. The essentials of satellite technology are explained, by giving an introduction to the fundamental topics such as orbits and trajectories, launch and in-orbit operations before going on to describe satellite hardware, communication techniques, multiple access techniques and link design. Topics range from the history and evolution of satellites, and the laws governing motion of artificial satellites around earth, to multiplexing techniques, satellite subsystems and link design fundamentals. Amply illustrated with a large number of figures and photographs, as well as relevant mathematics and design examples Contains a large number of problems with solutions, which would particularly benefit students at undergraduate and graduate levels

Companion website provides a complete compendium on features and facilities of satellites and satellite launch vehicles from past, present and planned futuristic satellite missions for various applications. The coverage of satellite technology together with its applications make the book an essential reference book for professionals, R&D scientists and engineers and students at undergraduate and postgraduate level. The aim of this book is to introduce students to the basic electrical and electronic principles needed by technicians in fields such as electrical engineering, electronics and telecommunications. The emphasis is on the practical aspects of the subject, and the author has followed his usual successful formula, incorporating many worked examples and problems (answers supplied) into the learning process. Electrical Principles and Technology for Engineering is John Bird's core text for Further Education courses at BTEC levels N11 and N111 and Advanced GNVQ. It is also designed to provide a comprehensive introduction for students on a variety of City & Guilds courses, and any students or technicians requiring a sound grounding in Electrical Principles and Electrical Power Technology. Widely regarded as a standard work in its field, this book introduces the range of processing techniques that are used in food manufacturing. It explains the principles of each process, the processing equipment used, operating conditions and the effects of processing on micro-organisms that contaminate foods, the biochemical properties of foods and their sensory and nutritional qualities. The book begins with an overview of important basic concepts. It describes unit operations that take place at ambient temperature or involve minimum heating of foods. Subsequent chapters examine operations that heat foods to preserve them or alter their eating quality, and explore operations that remove heat from foods to extend their shelf life with minimal changes in nutritional quality or sensory characteristics. Finally, the book reviews post-processing operations, including packaging and distribution logistics. The third edition has been substantially rewritten, updated and extended to include the many developments in food technology that have taken place since the second edition was published in 2000. Nearly all unit operations have undergone significant developments, and these are reflected in the large amount of additional material in each chapter. In particular, advances in microprocessor control of equipment, 'minimal' processing technologies, genetic modification of foods, functional foods, developments in 'active' or 'intelligent' packaging, and storage and distribution logistics are described. Developments in technologies that relate to cost savings, environmental improvement or enhanced product quality are highlighted. Additionally, sections in each chapter on the impact of processing on food-borne micro-organisms are included for the first time. Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications. Covering both the technology and its applications, Satellite Technology is a concise reference on satellites for commercial, scientific and military purposes. The book explains satellite technology fully, beginning by offering an introduction to the fundamentals, before covering orbits and trajectories, launch and in-orbit operations, hardware, communication techniques, multiple access techniques, and link design fundamentals. This new edition also includes comprehensive chapters on Satellite Networks and Satellite Technology – Emerging Trends. Providing a complete survey of applications, from remote sensing and military uses, to navigational and scientific applications, the authors also present an inclusive compendium on satellites and satellite launch vehicles. Filled with diagrams and illustrations, this book serves as an ideal introduction for those new to the topic, as well as a reference point for professionals. Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications - remote sensing, weather, navigation, scientific, and military - including new chapters on Satellite Networks and Satellite Technology – Emerging Trends. Covers the full range of satellite applications in remote sensing, meteorology, the military, navigation and science, and communications, including satellite-to-under sea communication, satellite cell-phones, and global Xpress system of INMARSAT. The cross-disciplinary coverage makes the book an essential reference book for professionals, R&D scientists and students at post graduate level. Companion website provides a complete compendium on satellites and satellite launch vehicles. An ideal introduction for Professionals and R&D scientists in the field. Engineering Students. Cross disciplinary information for engineers and technical managers. Renewable Energy Engineering and Technology: Principles and Practice - covers major renewable energy resources and technologies for various applications. The book is conceived as a standard reference book for students, experts, and policy-makers. It has been designed to meet the needs of these diverse groups. While covering the basics of scientific and engineering principles of thermal engineering, heat and mass transfer, fluid dynamics, and renewable energy resource assessments, the book further deals with the basics of applied technologies and design practices for following renewable energy resources. - Solar (thermal and photovoltaic)- Wind - Bio-energy including liquid biofuels and municipal solid waste- Other renewables such as tidal, wave, and geothermal. The book is designed to fulfil the much-awaited need for a handy, scientific, and easy-to-understand comprehensive handbook for design professionals and students of renewable energy engineering courses. Besides the sheer breadth of the topics covered, what makes this well-researched book different from earlier attempts is the fact that this is based on extensive practical experiences of the editor and the authors. Thus, a lot of emphasis has been placed on system sizing and integration. Ample solved examples using data for India

make this book a relevant and an authentic reference. How can you design technology that becomes a part of a user's life and not a distraction from it? This practical book explores the concept of calm technology, a method for smoothly capturing a user's attention only when necessary, while calmly remaining in the background most of the time. You'll learn how to design products that work well, launch well, are easy to support, easy to use, and remain unobtrusive. Author Amber Case presents ideas first introduced by researchers at Xerox PARC in 1995, and explains how they apply to our current technology landscape, especially the Internet of Things. This book is ideal for UX and product designers, managers, creative directors, and developers. You'll learn: The importance and challenge of designing technology that respects our attention Principles of calm design—peripheral attention, context, and ambient awareness Calm communication patterns—improving attention through a variety of senses Exercises for improving existing products through calm technology Principles and patterns of calm technology for companies and teams The origins of calm technology at Xerox PARC

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