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Principles of Technology, Unit 1 Principles of Technology Principles of Technology Food Processing Technology Principles of Technology, Unit 6 Principles of Technology, Unit 1 Chemical Technology Food Processing Technology Principles of Technology Functional Foods: Principles and Technology Technology Guide Energy-saving Principles and Technologies for Induction Motors □□□□□□□□□□ Food Processing Technology Principles of Technology, Unit 7 Principles of Modern Technology Assurance Technologies Surface Mount Technology Principles of Information Technology Food Processing Technology Electrical and Electronic Principles and Technology Radar Project Management for Business, Engineering, and Technology Principles of Infrared Technology Functional Foods Valuation and Dealmaking of Technology-Based Intellectual Property Rubber Processing High Pressure Processing of Food Electrical and Electronic Principles and Technology Optical Principles and Technology for Engineers Technology Pricing The Teaching of Design and Innovation Principles of Cereal Science and Technology Software Process: Principles, Methodology, and Technology Basic Principles of Membrane Technology Principles & Practices of Post Harvest Technology Web 2.0 and Beyond Principles of Microelectronic Technology Principles of Wood Science and Technology Harnessing Green IT

Principles of Technology, Unit 1

1985-01-01

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

Principles of Technology

1991

a fully updated edition of a popular textbook covering the four disciplines of chemical technology featuring new developments in the field clear and thorough throughout this textbook covers the major sub disciplines of modern chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology alongside raw materials energy sources and detailed descriptions of 24 important industrial processes and products it brings information on energy and raw material consumption and production data of chemicals up to date and offers not just improved and extended chapters but completely new ones as well this new edition of chemical technology from principles to products features a new chapter illustrating the global economic map and its development from the 15th century until today and another on energy consumption in human history chemical key technologies for a future sustainable energy system such as power to x and hydrogen storage are now also examined chapters on inorganic products material reserves and water consumption and resources have been extended while another presents environmental aspects of plastic pollution and handling of plastic waste the book also adds four important processes to its pages production of titanium dioxide silicon production and chemical recycling of polytetrafluoroethylene and fermentative synthesis of amino acids provides comprehensive coverage of chemical technology from the fundamentals to 24 of the most important processes intertwines the four disciplines of chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology fully updated with new content on power to x and hydrogen storage inorganic products including metals glass and ceramics water consumption and pollution and additional industrial processes written by authors with extensive experience in teaching the topic and helping students understand the complex concepts chemical technology from principles to products second edition is an ideal textbook for advanced students of chemical technology and will appeal to anyone in chemical engineering

Principles of Technology

1985

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

Food Processing Technology

2000-07-11

functional foods products which have health promoting properties over and beyond their nutritional value have become a significant food industry sector this volume provides an authoritative introduction to the key scientific aspects and major product categories in this area it focuses on the most significant product categories reviewing ingredient sources classification chemical and physical properties the wide range of therapeutic effects and possible mechanisms of action among other topics it also explores industry and consumer roles and examines antioxidants dietary fiber prebiotics and probiotics lipids and soy the appendix contains laboratory exercises

Principles of Technology, Unit 6

1985-01-01

use this technology guide to find descriptions of today s most essential global technologies clearly structured and simply explained the book s reference format invites even the casual reader to explore the stimulating innovative ideas it contains

Principles of Technology, Unit 1

1991

a unique guide to the integration of three phase induction motors with the emphasis on conserving energy the energy saving principle and technology for induction motor is a new topic and there are few books currently available this book provides a guide to the technology and aims to bringabout significant advancement in research and play an important role in improving the level of motor energy saving includes new and innovative topics such as a case study of energy saving in beam pumping system and reactive compensation as a means of energy saving the authors have worked in this area for 20 years and this book is the result of their accumulated research and expertise it is unique in its integration of three phase induction motors with the emphasis on conserving energy integrates the saving energy principle technology and method of induction motors with on site experiences showing readers how to meet the practical needs and to apply the theory into practice it also provides case studies and analysis which can help solve problems on site

Chemical Technology

2020-04-06

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Food Processing Technology

2009-07-28

this book is split into five parts in which unit operations are grouped according to the nature of the heat transfer that takes place each chapter describes the theoretical and practical aspects of the unit operation including the formula required for calculation of processing parameters sample problems and the effects on sensory characteristics and nutritional properties of selected foods provided by publisher

Principles of Technology

1987

based on a course taught at the university of rochester this volume describes the physical principles on which modern technology is based four primary areas are

discussed computers and microelectronics communications nuclear energy and space flight each topic is treated in a manner that provides the reader with insight into the underlying physics that makes the technology possible as well as the orders of magnitude involved the book will appeal to anyone interested in modern technology and will serve as a reference book and a textbook for courses in applied physics and engineering

Functional Foods: Principles and Technology

2009-02-17

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 technolgies 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

Technology Guide

2009-06-02

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 involve ment will span half a century

Energy-saving Principles and Technologies for Induction Motors

2017-11-29

principles of information technology presents basic principles and concepts about information technology to help students become more valuable employees better citizens and knowledgeable consumers written specifically for high school students this text maps to the ic3 digital literacy certification standards by studying this text students can prepare for taking the certiport ic3 digital literacy certification exams ic3 digital literacy certification is a well respected and internationally recognized credential

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2020-07

food processing technology principles and practice fourth edition has been updated and extended to include the many developments that have taken place since the third edition was published the new edition includes an overview of the component subjects in food science and technology processing stages important aspects of food industry management not otherwise considered e g financial management marketing food laws and food industry regulation value chains the global food industry and over arching considerations e g environmental issues and sustainability in addition there are new chapters on industrial cooking heat removal storage and distribution along with updates on all the remaining chapters this updated edition consolidates the position of this foundational book as the best single volume introduction to food manufacturing technologies available remaining as the most adopted standard text for many food science and technology courses updated edition completely revised with new developments on all the processing stages and aspects of food industry management not otherwise considered e g financial management marketing food laws and food industry regulation and moreintroduces a range of processing techniques that are used in food manufacturingexplains the key principles of each process including the equipment used and the effects of processing on micro organisms that contaminate foodsdescribes post processing operations including packaging and distribution logisticsincludes extra textbook elements such as videos and calculations slides in addition to summaries of key points in each chapter

Food Processing Technology

2000

in this book john bird introduces electrical principles and technology through examples rather than theory enabling students to develop a sound understanding of the principles needed by technicians in fields such as electrical engineering electronics and telecommunications no previous background in engineering is assumed making this an ideal text for vocational courses and introductory courses for undergraduates this new edition of electrical and electronic principles and technology has been brought fully in line with the new btec national specifications in the u k for the units electrical and electronic principles and further electrical and electronic principles and the corresponding avce units it is also designed to cover the requirements of intermediate gnvq and the new btec first specifications at intervals through the text assessment papers are provided which are ideal for tests or homeworks these are the only problems where answers are not provided in the book but fully worked solutions are available to lecturers only as a free download from the password protected tutor s area of newnespress com

Principles of Technology, Unit 7

1991

this comprehensive up to date book describes and details the wide range of modern radar systems and methods currently in use today from system fundamentals to functional descriptions of their subsystems the reference covers radar principles radar technology and successful applications of that technology and includes solved examples to illustrate critical principles appropriate for radar engineers electrical engineers flight test engineers and those in related disciplines

Principles of Modern Technology

1990-10-04

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

Assurance Technologies

1991

this book is about general infrared ir engineering technology practices and principles as they apply to modem imaging systems an alternative title to this book with appeal to managers and marketing personnel might be everything you always wanted to know about infrared sensors but couldn t get answers on from engineers this book is not meant to be a comprehensive compendium of ir like the infrared and electro optical systems handbook rather it is intend ed to complement such texts by providing up to date information and pragmatic knowledge that is difficult to locate outside of periodicals the information contained in this book is critical in the day to day life of en gineering practitioners proposal writers and those on the periphery of an ir pro gram it serves as a guide for engineers wishing to catch up engineers new to the field managers students administrators and technicians it is also useful for seasoned ir engineers who want to review recent technological developments

Surface Mount Technology

2014-03-14

building upon the success of the first edition functional foods principles and technology second edition covers the definition history and development trends of functional foods specifically this second edition discusses the chemistry of functional components and their physiological properties of functional foods including

antioxidants dietary fiber pre pro and paraprobiotics symbiotics and postbiotics selected nutritional supplements soy and soy foods human milk biochemistry and infant formula sports drinks chemistry and formulation aspects functional foods principles and technology second edition is sure to be of interest to food and nutrition researchers pharmacologists and those teaching and studying related fields presents methods and technologies to improve the bioavailability of bioactive substances includes laboratory exercises addresses antioxidants dietary fiber prebiotics probiotics and symbiotics lipids supplements soy sports drinks and infant formula

Principles of Information Technology

2015-11-12

this indispensable tool provides readers with complete coverage of the issues methods and art of valuing and pricing of early stage technologies including backgrounds in the core concepts sources of value methods of valuation equity realizations and negotiation strategies

Food Processing Technology

2016-10-01

rubber processing represents the first complete summary of rubber processing it critically discusses the development of rubber processing technology and also provides a fundamental understanding of all theoretical and experimental aspects of rubber processing and engineering including flow simulation the book is unique in that it presents a detailed treatment of many areas never combined before such as rubber materials technological development of mixing extrusion calendering and mending flow simulation of mixing extrusion calendering and molding another unique aspect of rubber processing is that in many chapters especially those treating technology references include not only journal articles but also many american british german and japanese patents

Electrical and Electronic Principles and Technology

2003-04-07

high pressure processing technology has been adopted worldwide at the industrial level to preserve a wide variety of food products without using heat or chemical preservatives high pressure processing technology principles and applications will review the basic technology principles and process parameters that govern microbial safety and product quality an essential requirement for industrial application this book will be of interest to scientists in the food industry in particular to those involved in the processing of products such as meat fish fruits and vegetables the book will be equally important to food microbiologists and processing specialists in both the government and food industry moreover it will be a valuable reference for authorities involved in the import and export of high pressure treated food products finally this update on the science and technology of high pressure processing will be helpful to all academic industrial local and state educators in their

educational efforts as well as a great resource for graduate students interested in learning about state of the art technology in food engineering

Radar

1993

this practical resource introduces electrical and electronic principles and technology covering theory through detailed examples enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering electronics and telecommunications no previous background in engineering is assumed making this an ideal text for vocational courses at levels 2 and 3 foundation degrees and introductory courses for undergraduates

Project Management for Business, Engineering, and Technology

2008

discussing the principles of physical and geometrical optics from an engineering point of view this book explains current optical technology and the applications of optical methods in a wide variety of fields from astronomy and agriculture to medicine and semiconductors it offers guidance in the selection of optical components for the construction of bread board models using commercially available standard components and provides immediately useful equations without unnecessary mathematical derivations

Principles of Infrared Technology

2012-12-06

this book is about design and innovation what it is and how to teach it the blending of design and innovation is having an increasing impact not only on the world of products and services but on a wide variety of disciplines such as information and communications technology ict business education and medicine however there is a lack of books on teaching the subject despite the significant growth of interest in both academia and the workplace this book addresses this gap by outlining foundational principles for the teaching of design and innovation and by offering a practical process for implementing the pedagogy in academic institutions and outside academia in the context of continuing professional development cpd it describes two undergraduate case studies that aimed to instill design and innovation competences in students of both engineering and business disciplines the cases involved student teams working with incubation centre start ups and multi national subsidiaries one of the aims of this book is to provide a resource for continuing professional development cpd consequently a third practitioner based case study is presented as an example of research informed teaching in addition the book proposes the concept of simulation action learning sal as an enhancement of project based learning pbl

Functional Foods

2024-09-01

1 jean claude derniame software process technology is an emerging and strategic area that has already reached a reasonable degree of maturity delivering products and significant industrial expe riences this technology aims at supporting the software production process by pro viding the means to model analyse improve measure and whenever it is reasonable and convenient to automate software production activities in recent years this tech nology has proved to be effective in the support of many business activities not directly related to software production but relying heavily on the concept of process i e all the applications traditionally associated with workflow management this book concentrates on the core technology of software processes its principles and concepts as well as the technical aspect of software process support the contributions to this book are the collective work of the promoter 2 european working group this grouping of 13 academic and 3 industrial partners is the suc cessor of promoter a working group responsible for creating a european software process community promoter 2 aims at exploiting this emerging community to collec tively develop remaining open issues to coordinate activities and to assist in the dis semination of results the title software process modelling and technology fink94 was produced during promoter 1 being project based it presented the main findings and proposals of the different projects then being undertaken by the partners

Valuation and Dealmaking of Technology-Based Intellectual Property

2009-07-28

2 0 and beyond principles and technologies draws on the author s iceberg model of 2 0 which places the social at the tip of the iceberg underpinned by a framework of technologies and ideas the author incorporates research from a range of areas including business economics information science law media studies psychology social informatics and sociology this multidisciplinary perspective illustrates not only the wide implications of computing but also how other areas interpret what computer science is doing after an introductory chapter the book is divided into three sections the first one discusses the underlying ideas and principles including user generated content the architecture of participation data on an epic scale harnessing the power of the crowd openness and the network effect and topology the second section chronologically covers the main types of 2 0 services blogs wikis social networks media sharing sites social bookmarking and microblogging each chapter in this section looks at how the service is used how it was developed and the technology involved important research themes and findings from the literature the final section presents the technologies and standards that underpin the operation of 2 0 and goes beyond this to explore such topics as the semantic cloud computing and science suitable for nonexperts students and computer scientists this book provides an accessible and engaging explanation of 2 0 and its wider context yet is still grounded in the rigour of computer science it takes readers through all aspects of 2 0 from the development of technologies to current services

Rubber Processing

1995

ultimately this is a remarkable book a practical testimonial and a comprehensive bibliography rolled into one it is a single bright sword cut across the various murky green it topics and if my mistakes and lessons learned through the green it journey are any indication this book will be used every day by folks interested in greening it simon y liu ph d ed d editor in chief it professional magazine ieee computer society director u s national agricultural library this book presents a holistic perspective on green it by discussing its various facets and showing how to strategically embrace it harnessing green it principles and practices examines various ways of making computing and information systems greener environmentally sustainable as well as several means of using information technology it as a tool and an enabler to improve the environmental sustainability the book focuses on both greening of it and greening by it complimentary approaches to attaining environmental sustainability in a single volume it comprehensively covers several key aspects of green it green technologies design standards maturity models strategies and adoption and presents a clear approach to greening it encompassing green use green disposal green design and green manufacturing it also illustrates how to strategically apply green it in practice in several areas key features presents a comprehensive coverage of key topics of importance and practical relevance green technologies design standards maturity models strategies and adoption highlights several useful approaches to embracing green it in several areas features chapters written by accomplished experts from industry and academia who have first hand knowledge and expertise in specific areas of green it presents a set of review and discussion questions for each chapter that will help the readers to examine and explore the green it domain further includes a companion website providing resources for further information and presentation slides this book will be an invaluable resource for it professionals academics students researchers project leaders managers it business executives cios ctos and anyone interested in green it and harnessing it to enhance our environment

High Pressure Processing of Food

2018-03-30

Electrical and Electronic Principles and Technology

2017

Optical Principles and Technology for Engineers

1996-04-23

Technology Pricing

1989-03-15

The Teaching of Design and Innovation

2020-05-06

Principles of Cereal Science and Technology

1986

Software Process: Principles, Methodology, and Technology

2006-08-18

Basic Principles of Membrane Technology

2014-01-15

Principles & Practices of Post Harvest Technology

2011

Web 2.0 and Beyond

2012-05-15

Principles of Microelectronic Technology

1998-04-01

Principles of Wood Science and Technology

1984

Harnessing Green IT

2012-08-31

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