

Shelf Life and Food Safety 2022-06-01

the quality and safety of the food we eat deserves the utmost attention and is a priority for producers and consumers alike shelf life studies provide important information to manufacturers and consumers to ensure a high quality food product various evaluation methods are used for shelf life determination and they are usually performed at the manufacturer level moreover various techniques are utilized throughout the food chain that enhance the shelf life of food products this sensitive issue is reviewed in shelf life and food safety which brings together a group of subject experts to present up to date and objective discussions on a broad range of topics including food spoilage and safe preservation packaging and sensory aspects the book presents both traditional and innovative technologies for enhancing food safety and increasing shelf life along with methods for the assessment and prediction of food safety and shelf life key features overviews the issues associated with shelf life enhancement and shelf life evaluation of various food products addresses issues important to maintaining food safety explains how shelf life depends on factors including ingredients for formulation processing techniques packaging and storage conditions covers shelf life evaluation methods determinants for shelf life food quality assessment and basic and innovative technologies that will improve the shelf life of food products this book is the first of its kind focusing on issues related to evaluation techniques for shelf life determinants and techniques for shelf life enhancement it is appropriate for students researchers scientists and professionals in food science and technology it is also a helpful source of information for people involved in the food industry food processing sector product development marketing and other associated fields

Vocational Education and Training in the Age of Digitization 2020-10-26

mit der zunehmenden digitalisierung der arbeitswelt ist ein beschleunigter strukturwandel verbunden der veränderte qualifikationsprofile und damit neue herausforderungen für die berufliche aus und weiterbildung mit sich bringt betriebe berufliche schulen und andere bildungsinstitutionen müssen darauf in angemessener weise reagieren der band nimmt die vielfältigen anforderungen an lehrende lernende und bildungsinstitutionen der beruflichen aus und weiterbildung in den blick und stellt aktuelle ergebnisse zum lernen im digitalen zeitalter zur verfügung

Impact of Digitalization on Society 2017-09-18

in the last few years our society has got transformed due to vast adoption of digital technology that in turn influenced every aspect of the socio economic infrastructure this edited ebook aims to present the many ways in which digitalization has affected different segments of our society

Computational Techniques for Process Simulation and Analysis Using MATLAB® 2014-12-16

matlab has become one of the prominent languages used in research and industry and often described as the language of technical computing the focus of this book will be to highlight the use of matlab in technical computing or more specifically in solving problems in process simulations this book aims to bring a practical approach to expounding theories both numerical aspects of stability and convergence as well as linear and nonlinear analysis of systems the book is divided into three parts which are laid out with a process analysis viewpoint first part covers system dynamics followed by solution of linear and nonlinear equations including differential algebraic equations dae while the last part covers function approximation and optimization intended to be an advanced level textbook for numerical methods simulation and analysis of process systems and computational programming lab it covers following key points comprehensive coverage of numerical analyses based on matlab for chemical process examples includes analysis of transient behavior of chemical processes discusses coding hygiene process animation and gui exclusively treatment of process dynamics linear stability nonlinear analysis and function approximation through contemporary examples focus on simulation using matlab to solve odes and pdes that are frequently encountered in process systems

Systemic Flexibility and Business Agility 2016-09-20

this book provides a conceptual framework for systemic flexibility and business agility drawing on a basis of research case applications in various types of flexibility and agility in business the selected papers address a variety of issues concerning the theme of systemic flexibility and business agility and are organized into following five parts i systemic and strategic flexibility ii information and business agility iii flexibility innovation and business excellence iv flexibility in value and supply chains and v financial flexibility and mergers acquisitions flexibility and agility in business are emerging as key dimensions of business excellence that encompass the requirements of both choice

and speed the two concepts flexibility and agility have been used in multiple ways and often interchangeably both in literature and in practice the growing need for flexibility agility in business can be seen from reactive as well as proactive perspectives a business enterprise is expected to possess reactive flexibility agility as adaptability and responsiveness in order to cope with the changing and uncertain business environment it may also endeavor to intentionally generate flexibility agility as a strategic change in a variety of ways such as leadership change reengineering innovation in products and processes use of information and communication technology and learning orientation

The SAGE Encyclopedia of Online Education 2017-04-17

online education both by for profit institutions and within traditional universities has seen recent tremendous growth and appeal but online education has many aspects that are not well understood the sage encyclopedia of online education provides a thorough and engaging reference on all aspects of this field from the theoretical dimensions of teaching online to the technological aspects of implementing online courses with a central focus on the effective education of students key topics explored through over 350 entries include technology used in the online classroom institutions that have contributed to the growth of online education pedagogical basis and strategies of online education effectiveness and assessment different types of online education and best practices the changing role of online education in the global education system

Fundamentals of MIMO Wireless Communications 2021-01-15

provides a solid understanding of the essential concepts of mimo wireless communications

Applications of Big Data in Large- and Small-Scale Systems 2015-08-20

with new technologies such as computer vision internet of things mobile computing e governance and e commerce and wide applications of social media organizations generate a huge volume of data and at a much faster rate than several years ago big data in large small scale systems characterized by high volume diversity and velocity increasingly drives decision making and is changing the landscape of business intelligence from governments to private organizations from communities to individuals all areas are being affected by this shift there is a high

demand for big data analytics that offer insights for computing efficiency knowledge discovery problem solving and event prediction to handle this demand and this increase in big data there needs to be research on innovative and optimized machine learning algorithms in both large and small scale systems applications of big data in large and small scale systems includes state of the art research findings on the latest development up to date issues and challenges in the field of big data and presents the latest innovative and intelligent applications related to big data this book encompasses big data in various multidisciplinary fields from the medical field to agriculture business research and smart cities while highlighting topics including machine learning cloud computing data visualization and more this book is a valuable reference tool for computer scientists data scientists and analysts engineers practitioners stakeholders researchers academicians and students interested in the versatile and innovative use of big data in both large scale and small scale systems

Routledge Handbook of Transportation 2020-11-17

the routledge handbook of transportation offers a current and comprehensive survey of transportation planning and engineering research it provides a step by step introduction to research related to traffic engineering and control transportation planning and performance measurement and evaluation of transportation alternatives the handbook of transportation demonstrates models and methods for predicting travel and freight demand planning future transportation networks and developing traffic control systems readers will learn how to use various engineering concepts and approaches to make future transportation safer more efficient and more sustainable edited by dušan teodorović and featuring 29 chapters from more than 50 leading global experts with more than 200 illustrations the routledge handbook of transportation is designed as an invaluable resource for professionals and students in transportation planning and engineering

Role of ICT in Higher Education 2022-04-12

this new volume provides an informative collection of chapters on ict and data analytics in education helping to lead the digital revolution in higher education the chapters emphasize skill development through ict artificial intelligence in education policies for integrating ict in higher education and more the book focuses mainly on technological advancements in ict in education the perceived role of ict in the teaching learning transaction pedagogy for teaching learning in the 21st century student centered learning based on ict learning analytics online technologies learning tools for technology enhanced learning distance education and learning the effective use of ict in management education experiences in ict for technology enhanced learning influence of ict in research development in higher

education role of teachers in direct classroom teaching in web based education system and role of ict in innovation capacity building the case studies help to illustrate the ideas and concepts discussed in the chapters

Global Debates in the Digital Humanities 2018-09-05

a necessary volume of essays working to decolonize the digital humanities often conceived of as an all inclusive big tent digital humanities has in fact been troubled by a lack of perspectives beyond westernized and anglophone contexts and assumptions this latest collection in the debates in the digital humanities series seeks to address this deficit in the field focused on thought and work that has been underappreciated for linguistic cultural or geopolitical reasons contributors showcase alternative histories and perspectives that detail the rise of the digital humanities in the global south and other invisible contexts and explore the implications of a globally diverse digital humanities advancing a vision of the digital humanities as a space where we can reimagine basic questions about our cultural and historical development this volume challenges the field to undertake innovation and reform contributors maria josé afanador llach u de los andes bogotá maira e Álvarez u of houston purbasha auddy jadavpur u diana barreto Ávila u of british columbia deepthi bharthur it for change sayan bhattacharyya singapore u of technology and design anastasia bonch osmolovskaya national research u higher school of economics jing chen nanjing u carlton clark kazimieras simonavičius u vilnius carolina dalla chiesa erasmus u rotterdam gimena del rio riande institute of bibliographic research and textual criticism leonardo foletto u of são paulo rahul k gairola murdoch u sofia gavrilova leibniz institute for regional geography andre goodrich north west u anita gurumurthy it for change aliz horvath eötvös loránd u igor kim russian academy of sciences inna kizhner siberian federal u cédric leterme tricontinental center andres lombana bermudez pontificia u javeriana bogotá lev manovich city u of new york itay marienberg milikowsky ben gurion u of the negev maciej maryl polish academy of sciences nirmala menon indian institute of technology indore boris orekhov national research u higher school of economics ernesto priego u of london sylvia fernández quintanilla u of kansas nuria rodríguez ortega u of Málaga steffen roth u of turku dibyadyuti roy indian institute of technology jodhpur maxim rummyantsev siberian federal u puthiya purayil sneha centre for internet and society bengaluru juan steyn south african centre for digital language resources melissa terras u of edinburgh ernesto miranda trigueros u of the cloister of sor juana lik hang tsui city u of hong kong tim unwin u of london lei zhang u of wisconsin la crosse

not a book about nanoscience and nanotechnology but rather an exposition of basic knowledge required to understand these fields the collection of topics makes it unique and these topics include the concept of quantum confinement and its consequences for electronic behaviour part ii the importance of surface thermodynamics for activity and interactions of nanoscale systems part iii the need to consider fluctuations as well as mean properties in small systems part iv the interaction of light with matter and specific applications of spectroscopy and microscopy part v this book is written for senior undergraduates or junior graduate students in science or engineering disciplines who wish to learn about or work in the areas of nanoscience and nanotechnology but who do not have the requisite background in chemistry or physics it may also be useful as a refresher or summary text for chemistry and physics students since the material is focused on those aspects of quantum mechanics thermodynamics and statistical mechanics that specifically relate to the size of objects

Research Anthology on Developing Effective Online Learning Courses **2016-03-15**

in the current educational environment there has been a shift towards online learning as a replacement for the traditional in person classroom experience with this new environment comes new technologies benefits and challenges for providing courses to students through an entirely digital environment with this shift comes the necessary research on how to utilize these online courses and how to develop effective online educational materials that fit student needs and encourage student learning motivation and success the optimization of these online tools requires a deeper look into curriculum instructional design teaching techniques and new models for student assessment and evaluation information on how to create valuable online course content engaging lesson plans for the digital space and meaningful student activities online are only a few of many current topics of interest for promoting student achievement through online learning the research anthology on developing effective online learning courses provides multiple perspectives on how to develop engaging and effective online learning courses in the wake of the rapid digitalization of education this book includes topics focused on online learners online course content effective online instruction strategies and instructional design for the online environment this reference work is ideal for curriculum developers instructional designers it consultants deans chairs teachers administrators academicians researchers and students interested in the latest research on how to create online learning courses that promote student success

PorroSoftware - Informatica 2021-07-12

informatica generale

Fundamentals of Modern Manufacturing 2018-03-16

fundamentals of modern manufacturing materials processes and systems is designed for a first course or two course sequence in manufacturing at the junior or senior level in mechanical industrial and manufacturing engineering curricula the distinctive and modern approach of the book emerges from its balanced coverage of the basic engineering materials the inclusion of recent manufacturing processes and comprehensive coverage of electronics manufacturing technologies the quantitative focus of the text is displayed in its emphasis on manufacturing science greater use of mathematical models and end of chapter problems this international adaptation of the book offers revised and expanded coverage of topics and new sections on contemporary materials and processes the new and updated examples and practice problems helps students gain solid foundational knowledge and the edition has been completely updated to use si units

Innovations in Measuring and Evaluating Scientific Information 2021-02-02

across a variety of disciplines data and statistics form the backbone of knowledge to ensure the reliability and validity of data appropriate measures must be taken in conducting studies and reporting findings innovations in measuring and evaluating scientific information provides emerging research on the theoretical base of scientific research and information literacy while highlighting topics such as bibliographical databases forensic research and trend analysis this book explores visualization tools software and techniques for science mapping and scientific literature this book is an important resource for scientific researchers policy makers research funding agencies and students

Innovative Data Communication Technologies and Application

2021-08-27

this book presents the latest research in the fields of computational intelligence ubiquitous computing models communication intelligence communication security machine learning informatics mobile computing cloud computing and big data analytics the best selected papers presented at the international conference on innovative data communication technologies and application icidca 2020 are included in the book the book focuses on the theory design analysis implementation and applications of distributed systems and networks

Physics 2021-11-01

physics introduction to electromagnetic theory has been written for the first year students of b tech engineering degree courses of all indian universities following the guideline and syllabus as recommended by aicte the book written in a very simple and lucid way will be very much helpful to reinforce understanding of different aspects to meet the engineering student s needs writing a text cum manual of this category poses several challenges providing enough content without sacrificing the essentials highlighting the key features presenting in a novel format and building informative assessment this book on engineering physics will prepare students to apply the knowledge of electromagnetic theory to tackle 21st century and onward engineering challenges and address the related questions some salient features of the book expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject to develop knowledge on critical questions solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner some essential information for the users under the heading know more for clarifying some basic information as well as comprehensive synopsis of formulae for a quick revision of the basic principles constructive manner of presentation so that an engineering degree students can prepare to work in different sectors or in national laboratories at the very forefront of technology

Applied Physics I | AICTE Prescribed Textbook (English) 1954

applied physic I is a compulsory paper for the first year diploma course in engineering technology syllabus of this books is strictly aligned as per model curriculum of aicte and academic content is amalgamated with the concepts of outcome based education book covers six topics physical world units and measurements force and motion work power and energy rotational motion properties of matter heat and thermometry each topic is written in easy and

lucid manner every chapter contains a set of exercise at the end of each unit to test the student s comprehension some salient features of the book content of the book is aligned with the mapping of course outcome programs outcomes and unit outcomes book provides lots of interested facts qr code for e resources qr code for use of ict etc students and teacher centric subject materials are included in book with balanced and chronological manner figures and tables are inserted to improve clarity of the topics short questions objective questions and long answer exercises of different difficulty levels are given for practice after every chapter solved numerical examples are provided with systematic steps in each chapter followed by numerical exercises with hints

An Anglo-Saxon dictionary 2017-03-31

an anglo saxon dictionary based on the manuscript collections of the late joseph bosworth supplement

Phase Equilibria in Ionic Liquid Facilitated Liquid-Liquid Extractions *2018-11-15*

this book provides a comprehensive overview of ionic liquid based separation techniques the glimpse of thermodynamic predictive models along with global optimization techniques will help readers understand the separation techniques at molecular and macroscopic levels experimental and characterization techniques are coupled with model based predictions so as to provide multicomponent data for the scientific community the models will focus more on the a priori based predictions which gives higher emphasis on hydrogen bonded systems particle swarm optimization pso technique will also eventually help the readers to apply optimization technique to an extraction process the overriding goal of this work is to provide pathways for leading engineers and researchers toward a clear understanding and firm grasp of the phase equilibria of ionic liquid systems

Changing Organizations: From the Psychological & Technological Perspectives 2022-12-27

the transformative digital technologies developed for industry 4 0 are proving to be disruptive change drivers in higher education industry 4 0 technologies are forming the basis of education 4 0 industry 4 0 technologies for education transformative technologies and applications examines state of the art tools and technologies that comprise education 4 0 higher education professionals can turn to this book to guide curriculum development aimed

at helping produce the workforce for industry 4.0 the book discusses the tools and technologies required to make education 4.0 a reality it covers online content creation learning management systems and tools for teaching learning and evaluating also covered are disciplines that are being transformed by industry 4.0 and form the core of education 4.0 curricula these disciplines include social work finance medicine and healthcare mobile technologies are critical components of industry 4.0 as well as education 4.0 the book looks at the roles of the internet of things iot 5g and cloud applications in creating the education 4.0 environment highlights of the book include technological innovations for virtual classrooms to empower students emerging technological advancements for educational institutions online content creation tools moodle as a teaching learning and evaluation tool gamification in higher education a design thinking approach to developing curriculum in education 4.0 industry 4.0 for service 4.0 and research 4.0 as a framework for higher education institutions eye tracking technology for education 4.0 the challenges and issues of the internet of things iot in teaching and learning

Industry 4.0 Technologies for Education 2012-10-10

accurate determination of the mobile position constitutes the basis of many new applications this book provides a detailed account of wireless systems for positioning signal processing radio localization techniques time difference of arrival performances evaluation and localization applications the first section is dedicated to satellite systems for positioning like gps gnss the second section addresses the localization applications using the wireless sensor networks some techniques are introduced for localization systems especially for indoor positioning such as ultra wide band uwb wifi the last section is dedicated to coupled gps and other sensors some results of simulations implementation and tests are given to help readers grasp the presented techniques this is an ideal book for students phd students academics and engineers in the field of communication localization

New Approach of Indoor and Outdoor Localization Systems 2019-08-24

the development of a robust drug product requires juggling many competing priorities such as overcoming scientific challenges following regulatory requirements and managing business related concerns unfortunately despite large resources spent on r d multifactor productivity of pharmaceuticals is on the decline for several years now because of this business reality pharmaceutical companies have seen a notable change in the traditional operating model and footprint over the past couple of decades outsourcing in particular has emerged as a successful business model for

given a special focus in the two extremely informative critical essays included at the end of the book key features fully annotated text explained in an easy to understand language detailed introduction to the play encourages readers to critically examine the background and the various aspects of the play act wise summary given at the end of each act

AS YOU LIKE IT BY WILLIAM SHAKESPEARE 2023-01-14

india has a rich history worthy of preservation the number of temples mosques tombs ancient city ruins palaces and other monuments is staggering in india even today archeologists are finding ruins of great monuments in remote and not so remote locations sadly various factors such as development erosion etc have caused and are causing damage to our ancient heritage unplanned expansions of cities building of new roads and shopping malls and residential areas unrestricted tourism all often end up eroding what is left of our archeological heritage in this book we introduce to the reader some concepts related to preservation of ancient buildings and monuments we discuss about the archeological survey of india its history and objectives we introduce world agreements such as the venice charter and burra charter that relate to the principles for preservation of heritage then we go through some of the actual preservation and restoration techniques showing their application in preserving and restoring some famous monuments and not so famous monuments it is hoped that this book will provide the interested reader with useful information about the concepts and techniques of preservation

Introduction to Conservation of Indian Monuments 2022-02-21

this book highlights the recent research on soft computing pattern recognition nature inspired computing and their various practical applications it presents 53 selected papers from the 13th international conference on soft computing and pattern recognition socpar 2021 and 11 papers from the 13th world congress on nature and biologically inspired computing nabic 2021 which was held online from december 15 to 17 2021 a premier conference in the field of soft computing artificial intelligence and machine learning applications socpar nabic 2021 brought together researchers engineers and practitioners whose work involves intelligent systems network security and their applications in industry including contributions by authors from over 20 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of computer science and engineering

Proceedings of the 13th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2021) 2018-06-01

1988ansi c 2 1989 1988ansi c 1973 ansi c

ICMAE2011 2011-10-24

volume is indexed by thomson reuters cpci s was these proceedings comprise fully refereed papers presented at the conference the main conference theme was mechanical and aerospace engineering and the main goal of the event was to provide an international scientific forum for the exchange of new ideas in a number of fields and for in depth discussions with peers from around the world core areas of mechanical and aerospace engineering are covered together with multidisciplinary interdisciplinary research and applications thus making the work an excellent guide to those topics

Mechanical and Aerospace Engineering, ICMAE2011 2019-03-08

publisher s note products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product understand the fundamentals methods and processes of modern hydrology this comprehensive engineering textbook offers a thorough overview of all aspects of hydrology and shows how to apply hydrologic principles for effective management of water resources it presents detailed explanations of scientific principles along with real world applications and technologies engineering hydrology an introduction to processes analysis and modeling follows a logical progression that builds on foundational concepts with modern hydrologic methods every hydrologic process is clearly explained along with current techniques for modeling and analyzing data you will get practice problems throughout that help reinforce important concepts coverage includes the hydrologic cycle water balance components of the hydrologic cycle evapotranspiration infiltration and soil moisture surface water groundwater water quality hydrologic measurements

streamflow measurement remote sensing and geographic information systems hydrologic analysis and modeling
unit hydrograph models river flow modeling design storm and design flood estimation environmental flows impact of
climate change on water management

Engineering Hydrology: An Introduction to Processes, Analysis, and Modeling 2021-05-01

buku digital ini berjudul sistem integumen derivat dan sistem pencernaan merupakan buku yang berisi tentang struktur anatomi hewan yang dapat memberikan tambahan wawasan pengetahuan dan pencerahan bagi pembaca semangat untuk berbagi terutama dalam literasi khazanah pengetahuan biologi yang mendasari penerbit menghadirkan konten konten di buku digital ini penerbit berdoa semoga buku digital yang diterbitkan ini bisa bermanfaat dan menjadi bahan pembelajaran serta panduan bagi siapapun juga

Sistem Integumen - Derivat dan Sistem Pencernaan 2021-05-01

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Sistem Ekskresi 2021-05-01

buku digital ini berjudul sistem muskuloskeletal merupakan buku yang berisi tentang struktur anatomi hewan yang dapat memberikan tambahan wawasan pengetahuan dan pencerahan bagi pembaca semangat untuk berbagi terutama dalam literasi khazanah pengetahuan biologi yang mendasari penerbit menghadirkan konten konten di buku digital ini penerbit berdoa semoga buku digital yang diterbitkan ini bisa bermanfaat dan menjadi bahan pembelajaran serta panduan bagi siapapun juga

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