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this is a new book on food process engineering which treats the principles of processing in a scientifically rigorous yet concise manner and which can be used as a lead in to more specialized texts for higher study it is equally relevant to those in the food industry who desire a greater understanding of the principles of the food processes with which they work this text is written from a quantitative and mathematical perspective and is not simply a descriptive treatment of food processing the aim is to give readers the confidence to use mathematical and quantitative analyses of food processes and most importantly there are a large number of worked examples and problems with solutions the mathematics necessary to read this book is limited to elementary differential and integral calculus and the simplest kind of differential equation

this book highlights the most important research areas in information and communication technologies and their impact on digital society and environment sustainable development namely the research in fields of information and communication technologies artificial intelligence in ict data analytics security of data and services reducing energy consumption in the digital environment and mathematical modeling for practical and research tasks in communication and data processing fields provided by various groups of researchers from germany and ukraine in cooperation with scientists from different countries the presented studies contain a discussion on the use of artificial intelligence in particular methods of deep learning practical implementation of the internet of things iot the modern study of eco monitoring systems research in fields of mathematical modeling in applied problems the book focuses on the basics of information and analytical activities in the digital global space to providing broadband internet access without decreasing the quality of experience qoe level improving services providing and system architecture for sdn the study of modern communication and information technologies contains original works dealing with many aspects of their improvement and use for forecasting social and environment sustainable development based on global information space as well as research that contains actual papers which show some effective technological solutions that can be used for the implementation of novel cloud infrastructure and radio electronics systems these results can be used in the implementation of novel systems and to promote the exchange of information in e societies given its scope the book offers a valuable resource for scientists lecturers specialists working at enterprises graduate and undergraduate students who engage with problems in information and communication technologies as well as aspects of society and environment sustainable development

introduces the concept of combined cycles for next generation nuclear power plants explaining how recent advances in gas turbines have made these systems increasingly desirable for efficiency gains and cost of ownership reduction promulgates modelling and analysis techniques to identify opportunities for increased thermodynamic efficiency and decreased water usage over current light water reactor lwr systems examines all power conversion aspects from the fluid exiting

the reactor to energy releases into the environment with special focus on heat exchangers and turbo machinery provides examples of small projects to facilitate nuanced understanding of the theories and implementation of combined cycle nuclear plants this book explores combined cycle driven efficiency of new nuclear power plants and describes how to model and analyze a nuclear heated multi turbine power conversion system operating with atmospheric air as the working fluid the included studies are intended to identify paths for future work on next generation nuclear power plants gen iv leveraging advances in natural gas fired turbines that enable coupling salt cooled helium cooled and sodium cooled reactors to a nuclear air brayton combined cycle nacc these reactors provide the option of operating base load nuclear plants with variable electricity output to the grid using natural gas or stored heat to produce peak power the author describes overall system architecture components and detailed modelling results of brayton rankine combined cycle power conversion systems and recuperated brayton cycle systems since they offer the highest overall energy conversion efficiencies with ever higher temperatures predicted in gen iv plants this book s investigation of potential avenues for thermodynamic efficiency gains will be of great interest to nuclear engineers and researchers as well as power plant operators and students

industrial energy systems channel fuels and power into a variety of energy types such as steam direct heat hot fluids and gases and shaft power for compressors fans pumps and other machine driven equipment all of these processes impact the environment and are impacted by external energy and environmental policies and regulations therefore many environmental management issues are closely related to energy use and efficiency applied industrial energy and environmental management provides a comprehensive and application oriented approach to the technical and managerial challenges of efficient energy performance in industrial plants written by leading practitioners in the field with extensive experience of working with development banks international aid organizations and multinational companies the authors are able to offer real case studies as a basis to their method the book is divided into three main parts part one describes energy and environmental management systems eems in current use and management techniques for energy and environmental performance improvement part two focuses on the engineering aspects of industrial energy management describing main industrial energy systems and how to analyse and improve their energy performance part three is the toolbox on an accompanying website which contains data analytical methods and questionnaires as well as software programs to support the practical application of the methods elaborated on in the first two parts of the book this book will be a valuable resource to practising energy and environmental management engineers plant managers and consultants in the energy and manufacturing industries it will also be of interest to graduate engineering and science students taking courses in industrial energy and environmental management

applied thermosciences is designed as a complete course text in mechanical energy aeronautical and environmental engineering the text is comprehensive in its coverage lays special stress on the basic concepts the approach is systematic and logical and emphasis throughout is placed on the application of the theory to real processes thermodynamics of fluid flow principles of refrigeration air conditioning heat transfer and harnessing solar energy has been discussed because they form an important constituent of applied thermosciences

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energy its discovery its availability its use concerns all of us in general and the engineers of today and tomorrow in particular the study of thermodynamics the science of energy is a critical element in the education of all types of engineers engineering thermodynamics provides a thorough introduction to the art and science of engineering thermodynamics it describes in a straightforward fashion the basic tools necessary to obtain quantitative solutions to common engineering applications involving energy and its conversion conservation and transfer this book is directed toward sophomore junior and senior students who have studied elementary physics and calculus and who are majoring in mechanical engineering it serves as a convenient reference for other engineering disciplines as well the first part of the book is devoted to basic thermodynamic principles essentially presented in the classic way the second part applies these principles to many situations including air conditioning and the interpretation of statistical phenomena

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