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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

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

the two associated subjects of thermodynamics and fluid mechanics are combined in this book to provide the reader with an easy to follow text which emphasizes the essential coherence of the material

an extensive critical compilation of the wide range of manufacturing processes that involve the application of spray technology this book covers design of atomizers as well as the performance of plant and their corresponding spray systems the needs of practising engineers from different disciplines project managers and works maintenance and design engineers are catered for of interest to researchers in the field of liquid sprays the book includes outlines of the contemporary and possible future research and challenges in the different fields of application and deals with sprays and their production sprays in industrial production processes processes involving vaporisation and cooling or cleaning of gases spray surface impact processes fuel sprays for fixed plant spraying of hot surfaces for steel making and other metals spraying of molten metals guidance is given for the analysis and interpretation of experimental data obtained using different measurement techniques

building upon the success of the first edition the nuclear engineering handbook second edition provides a comprehensive up to date overview of nuclear power engineering consisting of chapters written by leading experts this volume spans a wide range of topics in the areas of nuclear power reactor design and operation nuclear fuel cycles and radiation detection plant safety issues are addressed and the economics of nuclear power generation in the 21st century are presented the second edition also includes full coverage of generation iv reactor designs and new information on mrs technologies small modular reactors and fast reactors

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in industry 4 0 industrial productions are adjusted to complete smart automation which means introducing self automation methods self configuration self diagnosis of problems and removal cognition and intelligent decision making this implementation of industry 4 0 brings about a change in business paradigms and production models and this will be reflected at all levels of the production process including supply chains and will involve all workers in the production process from managers to cyber physical systems designers and customers as end users the handbook of research on integrating industry 4 0 in business and manufacturing is an essential reference source that explores the development and integration of industry 4 0 by examining changes and innovations to manufacturing processes as well as its applications in different industrial areas featuring coverage on a wide range of topics such as cyber physical systems integration criteria and artificial intelligence this book is ideally designed for mechanical engineers electrical engineers manufacturers supply chain managers logistics specialists investors managers policymakers production scientists researchers academicians and students at the postgraduate level

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