

# Thermal Engineering By Vijaya Ragavan Pdf

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*Annual Report* - Regional Research Laboratory (Hyderabad, India) 1971

**200 technical questions and answers for job interview Offshore Oil & Gas Platforms** - Petrogav International Oil & Gas Training Center 2020-06-30

The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 200 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

100 questions and answers for job interview Offshore Drilling Platforms - PETROGAV INTERNATIONAL

This book offers you a brief, but very involved look into the operations in the drilling of an oil & gas wells that will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the drilling process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore drilling platforms. It is intended also for non-drilling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations.

**Training for job interview Offshore Oil & Gas Platforms** - Petrogav International Oil & Gas Training Center 2020-07-01

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Emerging Thermal Processes in the Food Industry - Seid Mahdi Jafari 2022-11-20

Emerging Thermal Processes in the Food Industry, a volume in the Unit Operations and Processing Equipment in the Food Industry series, explains the processing operations and equipment necessary for thermal processing, including infrared heating, microwave processing, sonication, UV processing, ohmic heating and dielectric processing. These processes and unit operations are very important in terms of achieving favorable sensory properties and energy usage. Chapters emphasize basic texts relating to experimental, theoretical, computational and/or applications of food engineering principles and relevant processing equipment for emerging thermal unit operations. Written by experts in the field of food engineering in a simple and dynamic way, this book targets industrial engineers working in the field of food processing and within food factories

to make them more familiar with food processing operations and equipment. Explores new opportunities in food processing through emerging thermal processes Discusses different alternatives for emerging thermal processing operations Helps improve the quality and safety of food products

**JOB INTERVIEW Offshore Oil & Gas Rigs** - Petrogav International Oil & Gas Training Center 2020-07-01

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Transactions of the ASAE. - American Society of Agricultural Engineers 1994

**Emerging Trends in Mechanical Engineering** - L. Vijayaraghavan 2019-12-11

This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals.

Offshore Oil & Gas Platforms JOB INTERVIEW - Petrogav International Oil & Gas Training Center 2020-07-01

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Food Proteins and Bioactive Peptides - Maria Hayes 2018-06-01

This book is a printed edition of the Special Issue "Food Proteins and Bioactive Peptides" that was published in Foods

Advances in Heat Pump-Assisted Drying Technology - Vasile Minea 2016-09-15

Drying of solids is one of the most common, complex, and energy-intensive industrial processes. Conventional dryers offer limited opportunities to increase energy efficiency. Heat pump dryers are more energy and cost effective, as they can recycle drying thermal energy and reduce CO<sub>2</sub>, particulate, and VOC emissions due to drying. This book provides an introduction to the technology and current best practices and aims to increase the successful industrial implementation of heat pump-assisted dryers. It enables the reader to engage confidently with the technology and provides a wealth of information on theories, current practices, and future directions of the technology. It emphasizes several

new design concepts and operating and control strategies, which can be applied to improve the economic and environmental efficiency of the drying process. It answers questions about risks, advantages vs. disadvantages, and impediments and offers solutions to current problems. Discusses heat pump technology in general and its present and future challenges. Describes interesting and promising innovations in drying food, agricultural, and wood products with various heat pump technologies. Treats several technical aspects, from modeling and simulation of drying processes to industrial applications. Emphasizes new design concepts and operating and control strategies to improve the efficiency of the drying process.

Heat and Mass Transfer in Drying of Porous Media - Peng Xu 2019-07-16  
Heat and Mass Transfer in Drying of Porous Media offers a comprehensive review of heat and mass transfer phenomena and mechanisms in drying of porous materials. It covers pore-scale and macro-scale models, includes various drying technologies, and discusses the drying dynamics of fibrous porous material, colloidal porous media and size-distributed particle system. Providing guidelines for mathematical modeling and design as well as optimization of drying of porous material, this reference offers useful information for researchers and students as well as engineers in drying technology, food processes, applied energy, mechanical, and chemical engineering.

Heat Transfer - Konstantin Volkov 2018-06-27

The book focuses on new analytical, experimental, and computational developments in the field of research of heat and mass transfer phenomena. The generation, conversion, use, and exchange of thermal energy between physical systems are considered. Various mechanisms of heat transfer such as thermal conduction, thermal convection, thermal radiation, and transfer of energy by phase changes are presented. Theory and fundamental research in heat and mass transfer, numerical simulations and algorithms, experimental techniques, and measurements as they applied to all kinds of applied and emerging problems are covered.

Introduction to Food Engineering - R. Paul Singh 2001-06-29

Food engineering is a required class in food science programs, as outlined by the Institute for Food Technologists (IFT). The concepts and applications are also required for professionals in food processing and manufacturing to attain the highest standards of food safety and quality. The third edition of this successful textbook succinctly presents the engineering concepts and unit operations used in food processing, in a unique blend of principles with applications. The authors use their many years of teaching to present food engineering concepts in a logical progression that covers the standard course curriculum. Each chapter describes the application of a particular principle followed by the quantitative relationships that define the related processes, solved examples, and problems to test understanding. The subjects the authors have selected to illustrate engineering principles demonstrate the relationship of engineering to the chemistry, microbiology, nutrition and processing of foods. Topics incorporate both traditional and contemporary food processing operations.

Food Safety Engineering - Ali Demirci 2020-05-28

Food Safety Engineering is the first reference work to provide up-to-date coverage of the advanced technologies and strategies for the engineering of safe foods. Researchers, laboratory staff and food industry professionals with an interest in food engineering safety will find a singular source containing all of the needed information required to understand this rapidly advancing topic. The text lays a solid foundation for solving microbial food safety problems, developing advanced thermal and non-thermal technologies, designing food safety preventive control processes and sustainable operation of the food safety preventive control processes. The first section of chapters presents a comprehensive overview of food microbiology from foodborne pathogens to detection methods. The next section focuses on preventative practices, detailing all of the major manufacturing processes assuring the safety of foods including Good Manufacturing Practices (GMP), Hazard Analysis and Critical Control Points (HACCP), Hazard Analysis and Risk-Based Preventive Controls (HARPC), food traceability, and recalls. Further sections provide insights into plant layout and equipment design, and maintenance. Modeling and process design are covered in depth. Conventional and novel preventive controls for food safety include the current and emerging food processing technologies. Further sections focus on such important aspects as aseptic packaging and post-packaging technologies. With its comprehensive scope of up-to-date technologies and manufacturing processes, this is a useful and first-of-its kind text for the next generation food safety engineering professionals.

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**Introduction to Advanced Food Process Engineering** - Jatindra Kumar Sahu 2014-03-24

Food materials are processed prior to their consumption using different processing technologies that improve their shelf life and maintain their physicochemical, biological, and sensory qualities. Introduction to Advanced Food Process Engineering provides a general reference on various aspects of processing, packaging, storage, and quality control  
*Dissertation Abstracts International* - 2005

Job interview questions and answers for hiring on Offshore Oil and Gas Rigs - Petrogav International 2020-01-11

Petrogav International provides courses for participants that intend to work on offshore drilling and production platforms. Training courses are taught by professionals from the oil and gas industry with current knowledge and years of field experience. The participants will get all the necessary competencies to work on the offshore drilling platforms and on the offshore production platforms. It is intended also for non-drilling and non-production personnel who work in drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. This course provides a non-technical overview of the phases, operations and terminology used on offshore oil and gas platforms. It is intended also for non-production personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of production operations, with a particular focus on the unique aspects of offshore operations.

**MATERIALS SCIENCE AND ENGINEERING** - V. RAGHAVAN 2015-05-01

This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on 'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on 'Nanomaterials' describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers

100 technical questions and answers for job interview Offshore Oil & Gas Platforms - Petrogav International Oil & Gas Training Center 2020-06-30

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**Snack Foods** - Sergio O. Serna-Saldivar 2022-04-21

The diverse segments of the snack industries that generate close to \$520 billion of annual sales are adapting to new consumer's expectations, especially in terms of convenience, flavor, shelf life, and nutritional and health claims. *Snack Foods: Processing, Innovation, and Nutritional Aspects* was conceptualized to thoroughly cover practical and scientific aspects related to the chemistry, technology, processing, functionality, quality control, analysis, and nutrition and health implications of the wide array of snacks derived from grains, fruits/vegetables, milk and meat/poultry/seafood. This book focuses on novel topics influencing food product development like innovation, new emerging technologies and the manufacturing of nutritious and health-promoting snacks with a high processing efficiency. The up-to-date chapters provide technical reviews emphasising flavored salty snacks commonly used as finger foods, including popcorn, wheat-based products (crispbreads, pretzels, crackers), lime-cooked maize snacks (tortilla chips and corn chips), extruded items (expanded and half products or pellets), potato chips, peanuts, almonds, tree nuts, and products derived from fruits/vegetables, milk, animal and marine sources. Key Features: Describes traditional and novel processes and unit operations used for the industrial production of plant and animal-based snacks. Depicts major processes employed for the industrial production of raw materials, oils, flavorings and packaging materials used in snack food operations. Contains relevant and updated information about quality control and nutritional attributes and health implications of snack foods. Includes simple to understand flowcharts, relevant information in tables and recent innovations and trends. Divided into four sections, *Snack Foods* aims to understand the role of the major unit operations used to process snacks like thermal processes including deep-fat frying, seasoning, packaging and the emerging 3-D printing technology. Moreover, the book covers the processing and characteristics of the most relevant raw materials used in snack operations like cereal-based refined grits, starches and flours, followed by chapters for oils, seasoning formulations and packaging materials. The third and most extensive part of the book is comprised of several chapters which describe the manufacturing and quality control of snacks mentioned above. The fourth section is comprised of two chapters related to the nutritional and nutraceutical and health-promoting properties of all classes of snacks discussed herein.

[Advanced Computational Techniques for Heat and Mass Transfer in Food Processing](#) - Krunal M. Gangawane 2022-02-01

Computational methods have risen as a powerful technique for exploring the system phenomena and solving real-life problems. Currently, there are two principle computational approaches for system analysis: continuous and discrete. In the continuous approach, the governing equations can be obtained by applying the fundamental laws, such as conservation of mass, momentum, and energy over an infinitesimal control volume. On the other hand, the discrete approach concentrates on mimicking the molecular movement within the system. Both approaches have pros and cons, and continuous development and improvement in the existing computational methods are ongoing. *Advanced Computational Techniques for Heat and Mass Transfer in Food Processing* provides, in a single source, information on the use of methods based on numerical and computational analysis as applied in food science and technology. It explores the use of various numerical/computational techniques for the simulation of fluid flow and heat and mass transfer within food products. Key Features: Explores various numerical techniques used for modeling and validation Describes the knowhow of numerical and computational techniques for food process operations Covers a detailed numerical or computational approach of the principles of heat and mass transfer in the food processing operation Discusses the detailed computational simulation procedure of the food operation Recent years have witnessed a rapid development in the field of computational techniques owing to its abundant benefit to the food processing industry. The relevance of advanced computational methods has helped in understanding the

fundamental physics of thermal and hydrodynamic behavior that can provide benefits to the food processing industry in numerous applications. As a single information source for those interested in the use of methods based on numerical and computational analysis as applied in food science and technology, this book will ably serve any food academician or researcher in learning the advanced numerical techniques exploring fluid flow, crystallization, and other food processing operations.

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*Job Interview Questions and Answers for Hiring on Onshore Drilling Rigs* - Petrogav International 2020-01-08

The book contains 256 questions and answers for job interview for hiring on onshore drilling rigs.

**Thermal Food Engineering Operations** - Nitin Kumar 2022-04-19

*Thermal Food Engineering Operations* Presenting cutting-edge information on new and emerging food engineering processes, *Thermal Food Engineering Operations*, the first volume in the new series, "Bioprocessing in Food Science," is an essential reference on the modeling, quality, safety, and technologies associated with food processing operations today. As the demand for healthy food increases in the current global scenario, manufacturers are searching for new possibilities for occupying a greater share in the rapidly changing food market. Compiled reports and updated knowledge on thermal processing of food products are imperative for commercial enterprises and manufacturing units. In the current scenario, academia, researchers, and food industries are working in a scattered manner and different technologies developed at each level are not compiled to implement for the benefits of different stakeholders. However, advancements in bioprocesses are required at all levels for the betterment of food industries and consumers. This series of groundbreaking edited volumes will be a comprehensive compilation of all the research that has been carried out so far, their practical applications, and the future scope of research and development in the food bioprocessing industry. This first volume includes all the conventional and novel thermal technologies based on conduction, convection, and radiation principles and covers the basics of microbial inactivation with heat treatments, aseptic processing, retorting, drying, dehydration, combined high-pressure thermal treatments, and safety and quality concerns in food processing. Before studying the novel non-thermal processes and the concept of minimal processing, comprehensive knowledge about the conventional thermal technologies is desired along with benefits, constraints, equipment, and implementation of these technologies. Whether for the engineer, scientist, or student, this series is a must-have for any library. This outstanding new volume: Discusses food safety and quality and thermal processing, laying the groundwork for further study and research Provides case studies of solid-liquid and supercritical fluid extraction Explores pasteurization, ohmic heating, irradiation, and more Presents cutting-edge information on new and emerging food engineering processes Audience: Process and chemical engineers, chemists, engineers in other disciplines, managers, researchers, scientists, students, and teachers working in the field of food engineering and processing

**Hydrothermal Technology in Biomass Utilization & Conversion** - David Chiaramonti 2020-04-30

This book addresses a key innovative technology for decarbonization of the energy system: hydrothermal processing. It basically consists of treating biomass and wastes in a wet form, under pressure and temperature condition. This approach is becoming more and more attractive, as new feedstock and applications are appearing on the scene of bioeconomy and bioenergy. The hydrothermal processing of various type of biomass, waste, and residues, thus, raised the interest of many researchers and companies around the world, together with downstream upgrading processes and technologies: solid products as biochar, for

instance, or liquid ones as crude bioliquids, are finding new market opportunities in circular economy schemes. The Special Issue collects recent innovative research works in the field, from basic to applied research, as well as pilot industrial applications/demo. It is a valuable set of references for those investing time and effort in research in the field.

[273 technical questions and answers for job interview Offshore Drilling Rigs](#) - Petrogav International Oil & Gas Training Center 2020-06-28

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**Char and Carbon Materials Derived from Biomass** - Mejdi Jeguirim 2019-03-29

Char and Carbon Materials Derived from Biomass: Production, Characterization and Applications provides an overview of biomass char production methods (pyrolysis, hydrothermal carbonization, etc.), along with the characterization techniques typically used (Scanning Electronic Microscopy, X-Ray Fluorescence, Nitrogen adsorption, etc.) In addition, the book includes a discussion of the various properties of biomass chars and their suitable recovery processes, concluding with a demonstration of applications. As biomass can be converted to energy, biofuels and bioproducts via thermochemical conversion processes, such as combustion, pyrolysis and gasification, this book is ideal for professionals in energy production and storage fields, as well as professionals in waste treatment, gas treatment, and more. Provides a discussion of sources of biomass feedstocks, such as agricultural, woody plants and food processing residue Discusses the various production processes of biomass chars, including pyrolysis and hydrothermal carbonization Explores various applications of biomass chars within different industries, including energy and agronomy

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**Advances in Fluid Dynamics** - B. Rushi Kumar 2020-07-10

This book comprises selected peer-reviewed proceedings of the International Conference on Applications of Fluid Dynamics (ICAFD 2018) organized by the School of Advanced Sciences, Vellore Institute of Technology, India, in association with the University of Botswana and the Society for Industrial and Applied Mathematics (SIAM), USA. With an aim to identify the existing challenges in the area of applied mathematics and mechanics, the book emphasizes the importance of establishing new methods and algorithms to address these challenges. The topics covered include diverse applications of fluid dynamics in aerospace dynamics and propulsion, atmospheric sciences, compressible flow, environmental fluid dynamics, control structures, viscoelasticity and mechanics of composites. Given the contents, the book is a useful resource for students, researchers as well as practitioners.

**Production of Biofuels and Chemicals with Pyrolysis** - Zhen Fang 2020-10-27

This book presents a collection of studies on state-of-art techniques for converting biomass to chemical products by means of pyrolysis, which are widely applicable to the valorization of biomass. In addition to discussing the fundamentals and mechanisms for producing bio-oils, chemicals, gases and biochar using pyrolysis, it outlines key reaction parameters and reactor configurations for various types of biomass. Written by leading experts and providing a broad range of perspectives on cutting-edge applications, the book is a comprehensive reference guide for academic

researchers and industrial engineers in the fields of natural renewable materials, biorefinery of lignocellulose, biofuels, and environmental engineering, and a valuable resource for university students in the fields of chemical engineering, material science and environmental engineering.

**ASME Technical Papers** - 1976

**Physicochemical Aspects of Food Engineering and Processing** - Sakamon Devahastin 2010-08-03

Physical and chemical interactions between various constituents resulting from processing operations often lead to physical, sensory, and nutritional changes in foods. Combining important information on processing and food quality, Physicochemical Aspects of Food Engineering and Processing describes the effects of various processing technologies on [Advanced Drying Technologies for Foods](#) - Arun S Mujumdar 2019-06-19 The goal of all drying research and development is to develop cost-effective innovative processes that yield high-quality dried products with less energy consumption and reduced environmental impact. With the literature on drying widely scattered, Advanced Drying Technologies for Foods compiles under one cover concise, authoritative, up-to-date assessments of modern drying technologies applied to foods. This book assembles a number of internationally recognized experts to provide critical reviews of advanced drying technologies, their merits and limitations, application areas and research opportunities for further development. Features: Provides critical reviews of advanced drying technologies Discusses the merits and limitations of a variety of food drying technologies Explains drying kinetics, energy consumption and quality of food products Reviews the principles and recent applications of superheated steam drying The first four chapters deal with recent developments in field-assisted drying technologies. These include drying techniques with the utilization of electromagnetic fields to deliver energy required for drying, for example, microwave drying, radio frequency drying, electrohydrodynamic drying, and infrared radiation drying. The remainder of this book covers a wide assortment of recently developed technologies, which include pulse drying, swell drying, impinging stream drying, and selected advances in spray drying. The final chapter includes some innovative technologies which are gaining ground and are covered in depth in a number of review articles and handbooks, and hence covered briefly in the interest completeness. This book is a valuable reference work for researchers in academia as well as industry and will encourage further research and development and innovations in food drying technologies.

**150 technical questions and answers for job interview Offshore Oil & Gas Platforms** - Petrogav International Oil & Gas Training Center 2020-06-30

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**Advances in Clean Energy** - Anand Ramanathan 2020-10-22

Advances in Clean Energy: Production and Application supports sustainable clean energy technology and green fuel for clean combustion by reviewing the pros and cons of currently available technologies specifically for biodiesel production from biomass sources, recent fuel modification strategy, low-temperature combustion technology, including other biofuels as well. Written for researchers, graduate students, and professionals in mechanical engineering, chemical engineering, energy, and environmental engineering, this book: Covers global energy scenarios and future energy demands pertaining to clean energy technologies Provides systematic and detailed coverage of the processes and technologies used for biofuel production Includes new technologies and perspectives, giving up-to-date and state-of-the-art information on research and commercialization Discusses all conversion methods including biochemical and thermochemical Examines the environmental consequences of biomass-based biofuel use

**Novel Food Processing** - Jasim Ahmed 2016-04-19

Rapid expansion of research on the development of novel food processes in the past decade has resulted in novel processes drawn from fields

outside the traditional parameters of food processing. Providing a wealth of new knowledge, *Novel Food Processing: Effects on Rheological and Functional Properties* covers structural and functional changes at the micro level, and their implications at the macro level, in food exposed to new and emerging technologies. Contributions from an international panel with academic and professional credentials form the backbone of this work. They focus on the functional, rheological, and micro-structural changes that occur in foods when using emerging technologies such as high pressure processing, Ohmic heating, pulse electric fields, and ultraviolet radiation. The book examines new and innovative applications and presents the impact of these research findings on the nutritional aspects of protein and carbohydrate containing foods. It also considers the synergic effects of protein-starch components. Each chapter provides an in-depth analysis of a novel technology and its effect on food structure and function. New directions in food processing will continue to be influenced by diverse fields and used to respond to consumer concerns about food safety, quality, sensory attributes, and nutrition. Combining coverage of technological applications with the chemistry of food and biomaterials, this book illustrates in a very clear and concise fashion the structure-functionality relationship and how it is affected by newly developed and increasingly popular processing technologies.

**Promising Techniques for Wastewater Treatment and Water Quality Assessment** - Iqbal Ahmed 2021-12-01

This book reviews the primary aspects of wastewater treatment processing techniques and designs, as well as water quality assessment. Chapters address microwave digestive techniques of wastewater treatment, advanced ozone oxidative and photo processes, and reactive distillation for various applications. The book is a useful resource for choosing applicable processing techniques and design parameters.

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