

Kunii And Levenspiel Fluidization Engineering

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bioreactors D. Kunii D. Kunii Daiz Kunii Daizo Kunii Wen-Ching Yang Wen-ching Yang
Liang-Shih Fan Sergio Capareda Liang-Shih Fan Fathi Habashi Martin Nicolas Greco-Coppi
Don W. Green Robert H. Perry Don W. Green John S. Halow American Institute of Chemical
Engineers Wen-ching Yang Karl Schügerl

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Yang Karl Schügerl

focuses on the major research developments which are pertinent to engineers concerned with predictive methods and design of fluidization beds

this reference details particle characterization dynamics manufacturing handling and processing for the employment of multiphase reactors as well as procedures in reactor scale up and design for applications in the chemical mineral petroleum power cement and pharmaceuticals industries the authors discuss flow through fixed beds elutriation and entrainment gas distributor and plenum design in fluidized beds effect of internal tubes and baffles general approaches to reactor design applications for gasifiers and combustors dilute phase pneumatic conveying and applications for chemical production and processing this is a valuable guide for chemists and engineers to use in their day to day work

this volume of the aiche symposium series includes 14 papers presented at the annual meeting held in san francisco november 5 10 1989 these papers cover a wide spectrum of fundamental and application topics in fluidization and fluid particle systems such as hydrodynamics and heat transfer in a

introduction to biomass energy conversions explores biomass energy conversions and characterization using practical examples and real world scenarios it begins with biomass resource estimation and extends to commercialization pathways for economical biomass conversion into high value materials chemicals and fuels with extended discussions of new sustainability issues in biofuels production such as carbon capture and sequestration the second edition has been updated with carbon footprint work life cycle analysis the growing circular economy and newer research directions of biomass resources such as graphene production from biochar this book covers thermo chemical conversion processes including torrefaction pyrolysis gasification and advanced gasification biomass liquefaction and combustion this book is intended for senior undergraduate students taking renewable energy conversions bio energy biomass energy introduction to biofuels and sustainability engineering courses this book also features end of chapter problems exercises and case studies with a solutions manual available for instructors the ebook version includes the following digital enhancements audio player students can listen to an audio overview at the start of each chapter pop ups students can hover over important technical terms and keywords to instantly

view definitions and actual images such as of biomass materials products equipment and pilot facilities problem solving and objective type questions over 450 questions are included multiple choice quiz items with answers and solutions are provided at the end of each chapter these quizzes are carefully designed to satisfy all the key learning objectives for each chapter indices for commonly used units and conversions and glossary of terms used in biomass conversion systems are provided to aid the students in problem solving case studies students will tackle case studies on bioenergy techno economics and feasibility particularly for biodiesel bioethanol and biogas productions as well as pyrolysis and gasification systems ms excel templates are provided to conduct economic sensitivity analysis for each project included in the case study package are short videos to guide the students on how to navigate through each case study project

this book presents the current carbonaceous fuel conversion technologies based on chemical looping concepts in the context of traditional or conventional technologies the key features of the chemical looping processes their ability to generate a sequestration ready CO_2 stream are thoroughly discussed chapter 2 is devoted entirely to the performance of particles in chemical looping technology and covers the subjects of solid particle design synthesis properties and reactive characteristics the looping processes can be applied for combustion and or gasification of carbon based material such as coal natural gas petroleum coke and biomass directly or indirectly for steam syngas hydrogen chemicals electricity and liquid fuels production details of the energy conversion efficiency and the economics of these looping processes for combustion and gasification applications in contrast to those of the conventional processes are given in chapters 3 4 and 5 finally chapter 6 presents additional chemical looping applications that are potentially beneficial including those for H_2 storage and onboard H_2 production CO_2 capture in combustion flue gas power generation using fuel cell steam methane reforming tar sand digestion and chemicals and liquid fuel production a cd is appended to this book that contains the chemical looping simulation files and the simulation results based on the aspen plus software for such reactors as gasifier reducer oxidizer and combustor and for such processes as conventional gasification processes syngas chemical looping process calcium looping process and carbonation calcination reaction ccr process note cd rom dvd and other supplementary materials are not included as part of ebook file

derives from an unprecedented seminar held at columbia university s school of international

and public affairs in november 1990 at the seminar leading western diplomatic and military historians and vietnam scholars met with prominent vietnamese communists to reflect on the vietnam war

lime plays a crucial role in modern industry essential in steelmaking construction agriculture and chemical manufacturing however its production is inherently carbon intensive to drastically reduce co₂ emissions efficient carbon capture solutions are needed the indirectly heated carbonate looping ihcal process offers a groundbreaking approach to capturing co₂ from lime and cement production by leveraging synergies with existing industrial processes ihcal technology minimizes energy penalties and economic costs yet until now key integration challenges and modeling gaps have remained unaddressed to fill this research gap this doctoral dissertation presents innovative ihcal process integration approaches for efficient co₂ capture advanced reactor models based on experimental data strategies for heat recovery power generation and fuel optimization and insights on co₂ capture and economics based on process simulations all of this is complemented by practical design guidelines for scaling up the ihcal process this dissertation is a key reference for advancing ihcal technology toward commercialization and accelerating the decarbonization of lime production

get cutting edge coverage of all chemical engineering topics from fundamentals to the latest computer applications first published in 1934 perry s chemical engineers handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data now updated to reflect the latest technology and processes of the new millennium the eighth edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications filled with over 700 detailed illustrations the eighth edition of perry s chemical engineering handbook features comprehensive tables and charts for unit conversion a greatly expanded section on physical and chemical data new to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories inside this updated chemical engineering guide conversion factors and mathematical symbols physical and chemical data mathematics thermodynamics heat and mass transfer fluid and particle dynamics reaction kinetics process control process economics transport and storage of fluids heat transfer equipment

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reference work for chemical and process engineers newest developments advances achievements and methods in various fields

up to date coverage of all chemical engineering topics from the fundamentals to the state of the art now in its 85th anniversary edition this industry standard resource has equipped generations of engineers and chemists with vital information data and insights thoroughly revised to reflect the latest technological advances and processes perry s chemical engineers handbook ninth edition provides unsurpassed coverage of every aspect of chemical engineering you will get comprehensive details on chemical processes reactor modeling biological processes biochemical and membrane separation process and chemical plant safety and much more this fully updated edition covers unit conversion factors and symbols physical and chemical data including prediction and correlation of physical properties mathematics including differential and integral calculus statistics optimization thermodynamics heat and mass transfer fluid and particle dynamics reaction kinetics process control and instrumentation process economics transport and storage of fluids heat transfer operations and equipment psychrometry evaporative cooling and solids drying distillation gas absorption and gas liquid system design liquid liquid extraction operations and equipment adsorption and ion exchange gas solid operations and equipment liquid solid operations and equipment solid solid operations and equipment chemical reactors bio based reactions and processing waste management including air wastewater and solid waste management process safety including inherently safer design energy resources conversion and utilization materials of construction

papers were originally presented at the 67th and 68th annual meetings of the american institute of chemical engineers in washington and los angeles

alphabetical arrangement of entries that reflect current topics of interest to scientists chemists and engineers e g health safety toxicology and new materials comprehensive coverage each

entry consists of lengthy signed article with illustrations and bibliography

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