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Recent developments in solvent absorption technologies at the CO₂CRC in Australia

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Abstract

A 2.5 TPD post-combustion CO₂ capture plant for brown coal and a 0.5 TPD pre-combustion CO₂ capture IGCC process have been designed and are being built in Victoria, Australia to assess developments in solvent absorption capture technologies. In this paper, the flowsheets developed for these processes will be discussed along with the underpinning research in the following areas:

- New contact equipment – recent work has shown that the SMR packing has enhanced performance over structured packing and standard Pall rings.
- The influence of promoters to enhance kinetics – using a wetted-wall column, experiments have been conducted with boric acid added to potassium carbonate solvent with results showing an enhancement in CO₂ absorption rates.
- The influence of flue gas impurities – post-combustion impurities, including SO_x and NO_x, have been studied with potassium carbonate to evaluate their effects on CO₂ absorption.
- Process modeling – Aspen Plus[®] simulations have been developed to predict column performance and the effects of impurities on the equilibrium relationship.

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Keywords: solvent absorption; carbon dioxide; potassium carbonate; packed column; promoters; SO_x; NO_x; post-combustion; pre-combustion

1. Introduction

Removal of greenhouse gases from our atmosphere is vital in preventing the effects of climate change. The current technologies available for the separation of carbon dioxide from both pre- and post-combustion flue gases

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Recent Developments in Toxicology: Trends, Methods and Problems Philip L. Chambers, Claire M. Chambers, Wolf D. Wietorek, Siegfried Golbs, 2012-12-06 This proceedings of the European Society of Toxicology Meeting held in Leipzig September 12 14 1990 deals with the following topics Neurotoxicology of different noxious compounds New aspects and methods intoxicopathology Cardiovascular toxicology Toxic effects on haemostasis Toxic effects on liver and kidney Miscellaneous toxic effects

Chemical Kinetics: Fundamentals and Recent Developments Evgeny Denisov, Oleg Sarkisov, Gert Il'ich Likhtenshtein, 2003-05-23 An essential resource for understanding how photography works and how to solve the many problems photographers face when learning this trade It deals with the fundamental principles upon which the photographic process is based and presents the principles in a practical manner The new edition of this classic text has been updated to include a new chapter on Digital Imaging This important addition covers in depth everything photographers need to know in order to be completely up to date on the digital aspects of photography This book is heavily illustrated with helpful photographs and line

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Current Developments in Biotechnology and Bioengineering Sunita Varjani, Ashok Pandey, R. D. Tyagi, Huu Hao Ngo, Christian Larroche, 2020-02-19 Current Developments in Biotechnology and Bioengineering Emerging Organic Micropollutants summarizes the current knowledge of emerging organic micropollutants in wastewater and the possibilities of their removal elimination This book attempts a thorough and exhaustive discussion on ongoing research and future perspectives on advanced treatment methods and future directions to maintain and protect the environment through microbiological nanotechnological application of membrane technology molecular biological and by policymaking means In addition the book includes the latest developments in biotechnology and bioengineering pertaining to various aspects in the field of emerging organic micropollutants including their sources health effects and environmental impacts

Current Developments in Photocatalysis and Photocatalytic Materials Xinchun Wang, Masakazu Anpo, Xianzhi Fu, 2019-11-29 Photocatalytic materials can improve the efficiency and sustainability of processes and offer novel ways to address issues across a wide range of fields from sustainable chemistry and energy production to environmental remediation Current Developments in Photocatalysis and Photocatalytic Materials provides an overview of the latest advances in this field offering insight into the chemistry and activity of the latest generation of photocatalytic materials After an introduction to photocatalysis and photocatalytic materials this book goes on to outline a wide selection of photocatalytic materials not only covering typical metal oxide photocatalysts such as TiO₂ but also exploring newly developed organic semiconducting photocatalysts such as g C₃N₄ Drawing on the experience of an expert team of

contributors Current Developments in Photocatalysis and Photocatalytic Materials highlights the new horizons of photocatalysis in which photocatalytic materials will come to play an important role in our day to day lives Reviews developments in both organic and inorganic based materials for use in photocatalysis Presents the fundamental chemistry and activity of a broad range of key photocatalytic materials including both typical and novel materials Highlights the role photocatalytic materials can play in sustainable applications

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Recent Development in Energy Conversion Systems Sunday Olayinka Oyedepo,Fidelis Ibiang Abam,Olusegun David Samuel,Oluseyi Olanrewaju Ajayi,Abimbola Patricia Popoola,Diana-Andra Borca-Tasciuc,2024-03-15 In this industrial and technological age energy plays a principal role in sustainable development This is connected to issues regarding availability production processes utilization and environmental impact Due to the increased rate of population growth the energy demand in the entire world is getting to the level that it may not be sustained in the nearest future if drastic action is not taken to address the situation especially from research and development perspectives None of the millennium development goals MDGs can be completed without considerable improvements in the quality and quantity of energy services in developing countries according to the United Nations Development Programme

UNDP Based on this fact UNDP is making efforts especially in developing countries to ensure that people have access to sustainable sources of clean reliable and affordable energy since every aspect of human development is highly impacted by this vital resource

New and Future Developments in Microbial Biotechnology and Bioengineering Vijai Kumar Gupta, Susanne Zeilinger, Harikesh Bahadur Singh, Irina Druzhinina, 2020-07-12 New and Future Developments in Microbial Biotechnology and Bioengineering Recent Developments in Trichoderma Research covers topics on Trichoderma biodiversity strain improvement and related researches in bioprocess technology chemical engineering bioremediation process secondary metabolite production Protein production plant disease resistance and biocontrol technology This book includes unique compilations of different chapters with emerging issues in the area of Trichoderma research and its related importance in the Biochemical Industry Agri Food sector Includes recent developments on Trichoderma research in plant biotechnology agriculture and in the environment Provides a detailed and comprehensive coverage of the biodiversity and biochemistry of Trichoderma Covers potential applications of Trichoderma in biotechnology including secondary metabolites and protein engineering

Recent Developments in Sustainable Infrastructure (ICRDSI-2020)—Structure and Construction Management B. B. Das, Christy P. Gomez, Benu. G. Mohapatra, 2022-04-25 This book includes selected papers from the International Conference on Recent Developments in Sustainable Infrastructure ICRDSI 2020 and consists of themes pertaining to structural engineering and construction technology and management *Inventory of Current Energy Research and Development* Oak Ridge National Laboratory, 1972

Handbook Of Nanobiomedical Research: Fundamentals, Applications And Recent Developments (In 4 Volumes) Vladimir P Torchilin, 2014-08-18 This book consists of 4 volumes containing about 70 chapters covering all the major aspects of the growing area of nanomedicine Leading scientists from 15 countries cover all major areas of nanobiomedical research materials for nanomedicine application of nanomedicine in therapy of various diseases use of nanomedicines for diagnostic purposes technology of nanomedicines and new trends in nanobiomedical research This is the first detailed handbook specifically addressing various aspects of nanobiomedicine Readers are treated to cutting edge research and the newest data from leading researchers in this area

Recent Developments in Sustainable Infrastructure Sudarshan Kurwadkar, Rajan Choudhary, Pijush Samui, Satyajeeet Nanda, 2025-09-29 This book comprises selected papers from the International Conference on Recent Developments in Sustainable Infrastructure ICRDSI 2023 It focuses on key themes such as sustainable engineering practices technological advancements and innovations in infrastructure development The topics covered include blended technologies in civil engineering waste management and climate related challenges sustainable and innovative pavement design construction maintenance and rehabilitation techniques intelligent transportation systems recycling and reuse of materials in infrastructure projects green buildings sustainable water resource management sustainable structural management practices application of waste and innovate approaches for enhancing sustainability in structural and geotechnical projects

This publication serves as a valuable reference for researchers academicians and professionals engaged in sustainable infrastructure and related disciplines *Recent Developments in Separation Science* Norman N. Li,1972 **Recent Development of Electrospinning for Drug Delivery** Romána Zelkó,Dimitrios A. Lamprou,István Sebe,2020-03-27 Several promising techniques have been developed to overcome the poor solubility and or membrane permeability properties of new drug candidates including different fiber formation methods Electrospinning is one of the most commonly used spinning techniques for fiber formation induced by the high voltage applied to the drug loaded solution With modifying the characteristics of the solution and the spinning parameters the functionality related properties of the formulated fibers can be finely tuned The fiber properties i e high specific surface area porosity and the possibility of controlling the crystalline amorphous phase transitions of the loaded drugs enable the improved rate and extent of solubility causing a rapid onset of absorption However the enhanced molecular mobility of the amorphous drugs embedded into the fibers is also responsible for their physical chemical instability This Special Issue will address new developments in the area of electrospun nanofibers for drug delivery and wound healing applications covering recent advantages and future directions in electrospun fiber formulations and scalability Moreover it serves to highlight and capture the contemporary progress in electrospinning techniques with particular attention to the industrial feasibility of developing pharmaceutical dosage forms All aspects of small molecule or biologics loaded fibrous dosage forms focusing on the processability structures and functions and stability issues are included **Current Developments in Biotechnology and Bioengineering** Rupam Kataki,Ashok Pandey,Samir Kumar Khanal,Deepak Pant,2020-07-08 Current Developments in Biotechnology and Bioengineering Sustainable Bioresources for the Emerging Bioeconomy outlines recent advances in bioenergy biorefinery and the bioeconomy an essential element for a 21st century bio based society The book provides information on biomass and various conversion technologies with different parameters that affect the conversion process Sections cover different bioproducts biorefinery systems energy and greenhouse gas emission balances of bioenergy and biorefinery and environmental and economic footprints of bioeconomy Finally different strategies adopted by developed and developing countries for the promotion and implementation of a bioeconomy concept for a bio based society are systematically covered The book provides comprehensive information starting from early progress to the latest trends on bioenergy biorefinery and bioeconomy with special reference to the developed and the developing countries and the linkage between bioeconomy and climate change mitigation in simple scientific language to appeal to a wider audience Includes the fundamentals and concepts of biomass and bioenergy Outlines recent technology development for biomass conversion Provides concept for different bioproducts Covers global strategies and policies on the development of bioeconomies *Design and Performance of Gas Turbine Power Plants* William R. Hawthorne,Walter T. Olson,2015-12-08 Volume XI of the High Speed Aerodynamics and Jet Propulsion series Edited by W R Hawthorne and W T Olson This is a comprehensive presentation of basic problems involved in the

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Recent Developments in Durability Analysis of Composite Systems H. Dardon, H. Fukuda, K.L. Reifsnider, G. Verchery, 2000-01-01 The papers from these proceedings address experimental and analytical methods for the characterization and analysis of modern composite and adhesive systems They have been produced to provide understanding that can be used to design safe reliable engineering components

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