Advanced Prediction Of Pulsed Extraction Column

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1. Introduction. Liquid–liquid extraction is an important separation processes encountered in many chemical process industries (Lo et al., 1983).Different types of

Advanced prediction of pulsed (packed and sieve plate ...
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Model predictions are successfully validated against steady state and dynamic experimental data, where good agreements with the experimental data are achieved. I.

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It has an extraction efficiency similar to the vertical pulsed plate column. Here, the mass transfer performance of this novel column type was investigated and the application of three different models, i.e., the plug flow, the axial dispersion, and the back flow models, was evaluated to predict the solute concentration profile along the column ...

Prediction of Concentration Profiles in an L‐Shaped Pulsed ...
As a part of a research project on the mass transfer in liquid pulsed sieve‐tray extraction columns (PSE), the diameters and hold‐ups of the drops were measured: the drop size using a suction technique, with photoelectric detection, which was adapted to the special boundary conditions of the PSE; the integral hold‐up by the pressure difference between the lower and upper parts of the column.

A new method for the prediction of liquid pulsed sieve ...
PULSE (Prediction Framework For Usage Load on Subway SystEms), that offers accurate multi-granular arrival crowd flow prediction at sub-way stations.

PULSE: A Real Time System for CrowdFlow Predictionat ...
Results were predicted using a correlation [Eq. (8)], which was proposed by Kumar and Hartland (1986) for the pulsed perforated-plate column, with newly regressed parameters (Table 2): (8) d 32 ⁄ ⁄ ⁄ g = C 1 ⁄ ⁄ n 1 ⁄ h c ⁄ w / ⁄ w g n 2 ⁄ d g ⁄ w 1 / 4 ⁄ w 3 / 4 n 3 ⁄ ⁄ w n 4 C 2 + exp C 3 A f ⁄ ⁄ w g / ⁄ w 0.25.

Prediction of drop size in a pulsed and non-pulsed disc ...
A single expression for the prediction of drop size in the mixer-settler, transition and emulsion regimes of operation in pulsed perforated-plate liquid/liquid extraction columns is presented.

PREDICTION OF DROP SIZE IN PULSED PERFORATED-PLATE ...
Moutasem Jaradat, Menwer Attarakih, Hans-Jörg Bart, Advanced prediction of pulsed (packed and sieve plate) extraction columns performance using population balance modelling, Chemical Engineering Research and Design, 10.1016/j.cherd.2011.05.009, 89, 12, (2752-2760), (2011).

Mass and heat transfer from drops in liquid–liquid extraction
Ions produced with greater kinetic energy have a higher velocity and during the delay time move closer to the extraction electrode before the accelerating voltage is applied across the target or pulsed electrode.

Delayed extraction - Wikipedia
The pulsed columns have a clear advantage over other mechanical contactors when processing corrosive or radioactive solutions since the pulsing unit can be remote from the column.

Flooding characteristics in pulsed packed extraction columns
coefficients in pulsed packed extraction columns (Pratt and Stevens, 1992b). On this basis, for the purpose of establishing proper design procedures for pulsed packed extraction columns, there is a need for sound equations which predict the overall mass transfer coefficients. The present study has examined the influence of

PREDICTION OF MASS TRANSFER COEFFICIENTS IN A PULSED ...
Comparison of the Axial Dispersion Performance of Pulsed Solvent Extraction Columns with Tenova Pulsed Column‐Kinetics Internals and Standard Disc and Doughnut Internals. Solvent Extraction and Ion Exchange 2018 , 36 (4) , 387-400.

Prediction of continuous-phase axial mixing coefficients ...
population balance frame work (the base of LLECMOD ‐‐‐Liquid-Liquid Extraction Column Module‐‐‐) for the steady state and dynamic simulation of pulsed (sieve plate and packed) liquid-liquid extraction columns is developed. The model simulates the coupled hydrodynamic and mass transfer for pulsed (packed and sieve plate) extraction columns.

Dynamic Modelling and Simulation of (Pulsed and Stirred ...
The period of an extracted velocity pulse can be defined as the period for which the Fourier spectrum of the pulse's wavelet is maximized.

This book features high-quality research papers presented at the International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017). It includes sections describing technical advances in the fields of advanced computing and intelligent engineering, which are based on the presented articles. Intended for postgraduate students and researchers working in the discipline of computer science and engineering, the proceedings also appeal to researchers in the domain of electronics as it covers hardware technologies and future communication technologies.

A reflection of the intense study of the effects of electromagnetic fields on living tissues that has taken place during the last decades, Advanced Electroporation Techniques in Biology and Medicine summarizes most recent experimental findings and theories related to permeabilization of biomembranes by pulsed electric fields. Edited by experts and including contributions from pioneers in the field, the book focuses on biophysical mechanisms of electroporation and applications of this phenomenon in biomedical research and medicine. The field of electroporation is now mature enough to move from journal pages to book covers. The book leads readers from the basics and history of electroporation, through mechanisms of membrane permeabilization in lipid bilayers and living cells, to electrically-mediated gene delivery and cancer therapy in animals and humans. This book is an interdisciplinary compilation intended broadly for biomedical and physical scientists, engineers, and clinicians. It can also be used as a textbook for students in advanced courses in biomedical engineering, molecular and cell biology, as well as in biophysics and clinical medicine.

INTERNATIONAL WORKSHOPS (at IAREC'17) (This book inclueds English (main) and Turkish languages) International Workshop on Mechanical Engineering International Workshop on Mechatronics Engineering International Workshop on Energy Systems Engineering International Workshop on Automotive Engineering and Aerospace Engineering International Workshop on Material Engineering International Workshop on Manufacturing Engineering International Workshop on Physics Engineering International Workshop on Electrical and Electronics Engineering International Workshop on Computer Engineering and Software Engineering International Workshop on Chemical Engineering International Workshop on Textile Engineering International Workshop on Architecture International Workshop on Civil Engineering International Workshop on Geomatics Engineering International Workshop on Industrial Engineering International Workshop on Food Engineering International Workshop on Aquaculture Engineering International Workshop on Agriculture Engineering International Workshop on Mathematics Engineering International Workshop on Bioengineering Engineering International Workshop on Biomedical Engineering International Workshop on Genetic Engineering International Workshop on Environmental Engineering International Workshop on Other Engineering Science

Food processing technologies are an essential link in the food chain. These technologies are many and varied, changing in popularity with changing consumption patterns and product popularity. Newer process technologies are also being evolved to provide the added advantages. Conventional and Advanced Food Processing Technologies fuses the practical (application, machinery), theoretical (model, equation) and cutting-edge (recent trends), making it ideal for industrial, academic and reference use. It consists of two sections, one covering conventional or well-established existing processes and the other covering emerging or novel process technologies that are expected to be employed in the near future for the processing of foods in the commercial sector. All are examined in great detail, considering their current and future applications with added examples and the very latest data. Conventional and Advanced Food Processing Technologies is a comprehensive treatment of the current state of knowledge on food processing technology. In its extensive coverage, and the selection of reputed research scientists who have contributed to each topic, this book will be a definitive text in this field for students, food professionals and researchers.

This book presents recent advances in the field of Neurological disorders research. It consists of 9 chapters encompassing a wide range of areas including bioengineering, stem cell transplantation, gene therapy, proteomic analysis, alternative treatment and neuropsychiatry analysis. It highlights the development of multiple discipline approaches in neurological researches. The book brings together leading researchers in neurological disorders and it presents an essential reference for researchers working in the neurological disorders, as well as for students and industrial users who are interested in current developments in neurological researches.

Advanced separations technology is key to closing the nuclear fuel cycle and relieving future generations from the burden of radioactive waste produced by the nuclear power industry. Nuclear fuel reprocessing techniques not only allow for recycling of useful fuel components for further power generation, but by also separating out the actinides, lanthanides and other fission products produced by the nuclear reaction, the residual radioactive waste can be minimised. Indeed, the future of the industry relies on the advancement of separation and transmutation technology to ensure environmental protection, criticality-safety and non-proliferation (i.e., security) of radioactive materials by reducing their long-term radiological hazard. Advanced separation techniques for nuclear fuel reprocessing and radioactive waste treatment provides a comprehensive and timely reference on nuclear fuel reprocessing and radioactive waste treatment. Part one covers the fundamental chemistry, engineering and safety of radioactive materials separations processes in the nuclear fuel cycle, including coverage of advanced aqueous separations engineering, as well as on-line monitoring for process control and safeguards technology. Part two critically reviews the development and application of separation and extraction processes for nuclear fuel reprocessing and radioactive waste treatment. The section includes discussions of advanced PUREX processes, the UREX+ concept, fission product separations, and combined systems for simultaneous radionuclide extraction. Part three details emerging and innovative treatment techniques, initially reviewing pyrochemical processes and engineering, highly selective compounds for solvent extraction, and developments in partitioning and transmutation processes that aim to close the nuclear fuel cycle. The book concludes with other advanced techniques such as solid phase extraction, supercritical fluid and ionic liquid extraction, and biological treatment processes. With its distinguished international team of contributors, Advanced separation techniques for nuclear fuel reprocessing and radioactive waste treatment is a standard reference for all nuclear waste management and nuclear safety professionals, radiochemists, academics and researchers in this field. A comprehensive and timely reference on nuclear fuel reprocessing and radioactive waste treatment Details emerging and innovative treatment techniques, reviewing pyrochemical processes and engineering, as well as highly selective compounds for solvent extraction Discusses the development and application of separation and extraction processes for nuclear fuel reprocessing and radioactive waste treatment

This book is a printed edition of the Special Issue "Advanced Energy Storage Technologies and Their Applications (AESA)" that was published in Energies

Proceedings of the International Symposium in Novel Materials Processing by Advanced Electromagnetic Energy Sources (MAPEES'04) *Identifies and details recent progress achieved in advanced electromagnetic energy sources in materials processing. *Explores novel approaches to advanced electromagnetic energy processing of materials in an attempt to discover new and unique industrial fields.

Refereed postproceedings of the International Conference on Non-Linear Speech Processing, NOLISP 2005. The 30 revised full papers presented together with one keynote speech and 2 invited talks were carefully reviewed and selected from numerous submissions for inclusion in the book. The papers are organized in topical sections on speaker recognition, speech analysis, voice pathologies, speech recognition, speech enhancement, and applications.

Most industrial and hazardous waste management resources cover the major industries and provide conventional in-plant pollution control strategies. Until now however, no book or series of books has provided coverage that includes the latest developments in innovative and alternative environmental technology, design criteria, managerial decision met