

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): $(8) d \ 32 \ y / \Delta \rho \ g = C \ 1 \cdot \epsilon \ n \ 1 \cdot h \ c \ \sigma \ w / \rho \ w \ g \ n \ 2 \ \mu \ d \ g \ p \ w \ 1 / 4 \ \sigma \ w \ 3 / 4 \ n \ 3 \ y \ \sigma \ w \ n \ 4 \ C \ 2 + \exp \ C \ 3 \ A \ f \ \epsilon \ \sigma \ w \ g / \rho \ w \ 0.25.$

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.