

Mathematical Modeling And Scale Up Of Liquid Chromatography With Application Examples

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Mathematical Modeling and Scale-up of Liquid ...

Mathematical Modeling and Scale-Up of Liquid Chromatography: With Application
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A mathematical model is a description of a system using mathematical concepts and language. The process of developing a mathematical model is termed mathematical modeling. Mathematical models are used in the natural sciences (such as physics, biology, earth science, chemistry) and engineering disciplines (such as computer science, electrical engineering), as well as in non-physical systems such ...

Using mathematical modeling to inform health policy: A ...

This scale-up was projected to avert 430,000 HIV infections between 2011 and 2015, and almost 3.36 million through 2025 . Furthermore, while the scale-up itself was projected to cost a total of US\$2 billion between 2011 and 2025, the projected HIV treatment costs averted meant there would be a net savings of US\$16.51 billion.

Mathematical Modeling And Scale Up

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Mathematical modeling and scale-up of size-exclusion chromatography Zhiguo Li, Yesong Gu, Tingyue Gu* Department of Chemical Engineering, Ohio University, Athens, OH 45701-2979, USA Received 5 March 1998; accepted 5 August 1998 Abstract Size exclusion chromatography (SEC) is a widely used tool in bioseparations.

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mathematical models along with the experimental data from the successful lab-scale AACVD implementations. The success of the large-scale process can be specified in terms of the highest specific product formation rate obtained that meets the industry standard properties for the products. The scale-up

Mathematical model - Wikipedia

mathematical modeling size-exclusion chromatography small column large column general rate model scale-up prediction preparative sec column peak shape feed volume bed dimension elution peak separation mechanism simple elution run bed volume ratio bio-rad laboratory sec column retention time preparative sec glass column various mass transfer ...

Mathematical modeling and scale-up of size-exclusion ...

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5.4. Experimental scale-up example. To validate the scale-up procedure, a small column(1.5 cm×27.3 cm bed dimensions) packed with P60 gel was used. Comparisons between the model calculated and the experimental results on the small column are shown in Fig. 8(a) and (b). Fig. 8(a) shows the results for a single-

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component elution.

Mathematical Modeling and Scale-up of Liquid Chromatography

Mathematical Modeling and Scale-up of Liquid Chromatography. A book (original 1st edition) written by Tingyue Gu, Dept. of Chemical Engineering, Ohio University Published by Springer Verlag, Berlin-New York, 1995.(ISBN 3-540-58884-1) Available from Amazon.com and other book sellers. Currently out of print.

Bing: Mathematical Modeling And Scale Up

The understanding of the dynamics of chromatography is imperative for the scale-up. This book is a systematic treatment of the general rate models for various forms of liquid chromatography including adsorption, size exclusion, affinity, reversed phase, hydrophobic interaction, and radial flow chromatography.

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