

Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/the-influence-of-biofilm-detachment-model-on-steady-state-properties-of-a-three-phase-fluidized-bed-bioreactor>

The influence of biofilm detachment model on steady-state properties of a three-phase fluidized-bed bioreactor

Publication date:	27.12.2018
Publication title:	The influence of biofilm detachment model on steady-state properties of a three-phase fluidized-bed bioreactor
Authors:	Szymon Skoneczny
Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
Tags:	fluidized-bed bioreactor , biofilm detachment , mathematical modeling

Abstrakt: Steady-state characteristics of a three-phase fluidized-bed bioreactor was determined with the use of three biofilm detachment models. Simulations were carried out for two chosen microbiological processes. It was shown that depending on the accepted quantitative description of biofilm detachment, quantitative or qualitative differences occur in the steady-state characteristics of the bioreactor.

Attachments:

[Zeszyt 22 \(2018\)](#) pdf, 4.49 MB

Published by:	Artur Wojdyła
Published at:	31.07.2025 12:53
Last edited by:	Artur Wojdyła
Last edited at:	31.07.2025 12:55
Number of downloads:	134

Tagi: fluidized-bed bioreactor, biofilm detachment, mathematical modeling

Metryczka

Published by:	Artur Wojdyła
Published at:	05.08.2025 13:53
Number of views:	136