Institute of Chemical Engineering

Adres artykułu: https://iich.gliwice.pl/en/article/flow-resistance-transport-phenomena-for-metallic-foam-experiments

Flow resistance, transport phenomena for metallic foam: experiments

Publication date:	30.12.2013
Publication title:	Flow resistance, transport phenomena for metallic foam: experiments
Authors:	Anna Gancarczyk, Marzena Iwaniszyn, Andrzej Kołodziej, Marcin Piątek, Bożena Janus, Tadeusz Kleszcz, Joanna Kryca, Franciszek Owczarek, Joanna Łojewska
Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk

Abstract: Flow resistance and transport properties for air flow through metallic NiCr foam were experimentally studied. The foam was considered as a catalyst carrier in structured reactors. Heat transfer coefficients were determined by foam heating by electric current flowing directly through it. Mass transfer coefficiants were determined based on the Chilton-Colburn analogy. The results were compared with packed bed and mono-lithic reactor.

Attachments:

Zeszyt-17-2013 pdf, 6.23 MB

Created at:	04.08.2025
Published by:	Artur Wojdyła
Published at:	04.08.2025 11:44
Number of downloads:	166

Metryczka

Published by:	Artur Wojdyła
Published at:	18.09.2025 14:51
Number of views:	123