

Institute of Chemical Engineering

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Effect of POCS geometry on fluid flow and heat transfer

Publication date:	01.12.2023
Publication title:	Effect of POCS geometry on fluid flow and heat transfer
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Journal information:	Chemical and Process Engineering: New Frontiers

Hydraulic and transport properties of periodic open cellular structures (POCS) based on cubic cells were investigated numerically. Different cell and strut dimensions, as well as strut shapes, were examined. Numerical results of heat transfer and flow resistance, as well as modeled morphological parameters were verified experimentally. The most beneficial properties were obtained for the POCS with convex triangular, circular and hexagonal struts.

Metryczka

Published by:	Marek Tańczyk
Published at:	08.05.2026 14:22
Number of views:	4