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CFD study of the supercritical transesterification of triolein: wall-to-fluid/particle-to fluid transport effects

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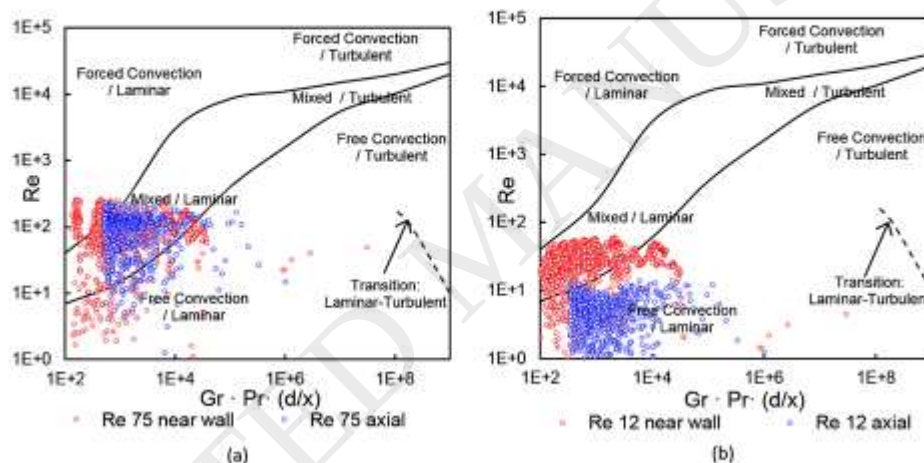
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Graphical abstract

FREE CONVECTION EFFECTS IN A SUPERCRITICAL TRANSESTERIFICATION REACTOR



HIGHLIGHTS

- CFD is used to study heat/mass transfer on supercritical transesterification
- Mixed convection on a packed bed under supercritical conditions was studied
- Forced convection effects were found to be more important near the reactor wall
- Free convection effects were found to be more important near the reactor axis

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