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The sensitive model parameters have been identified as those belonging to the models describing the physical and/or chemical equilibrium of the reactive system. The influence of the sensitive model parameters on simulation/design is highlighted through a systematic analysis of the models typically employed for steady-state and dynamic simulations of reactive distillation operations.

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model of reactive distillation is presented to describe the production of biodiesel. After modeling, simulation of reactive distillation using MATLAB software is dealt with. The schematic of the reactive distillation system shown in Figure below is presented (Mueanmas, Prasertsit and Tongurai, 2010). As stated in the figure, 12

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MODELING AND SIMULATION OF PORE-SCALE MULTIPHASE FLUID FLOW AND REACTIVE TRANSPORT IN FRACTURED AND POROUS MEDIA Paul Meakin<sup>1,2,3</sup> and Alexandre M. Tartakovsky<sup>4</sup> Received 8 February 2008; accepted 18 December 2008; published 14 July 2009. [1] In the subsurface, fluids play a critical role by transporting dissolved minerals, colloids, and contaminants

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## Modeling and simulation of the centrifugal reactive ...

Important aspects related to modeling and simulation of reactive distillation processes are presented. Reactive distillation processes are system specific and are subject to the sensitivity of the model parameters. The sensitive model parameters have been identified as those belonging to the models ...

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