

Li, X-M, M.Eng., "CFD Modeling of LSCFB", The University of Western Ontario, May 2006, (co-supervised, C. Zhang as chief advisor).

**Abstract**

A  $k-\epsilon$  turbulent model for liquid phase and kinetic theory for solid phase were used to simulate the liquid and solid flow in a liquid-solid circulating fluidized bed (LSCFB), with the assistance of FLUENT6.2. The computational results of hydrodynamics simulations under different operating parameters show very good agreement with the experimental data, showing the feasibility of using the FLUENT 6.2 for LSCFB.