

Applications of fluidized bed technology in processes other than combustion and gasification

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Abstract: In this chapter, the additional applications of fluidized bed technology are discussed. Examples include uses in the environmental, chemical, and process industries. Fluidized bed technology can be seen to contribute significantly to the high efficiencies and low emissions of these processes. This chapter aims to illustrate the versatility of fluidized bed technology and to give a complete picture of the technology's useful characteristics, such as its excellent heat and mass transfer, good contacting between gas and solid elements, and its utility in a wide range of operating conditions. Examples of fluidized bed applications presented are: fluid catalytic cracking (FCC), the reduction of iron ores, flue gas cleaning, the production of melamine and titanium oxide, the roasting of sulfide ores, and the drying of coal.

Key words: fluid catalytic cracking (FCC), iron ore reduction, acid gas control, melamine, fluidized bed chlorination, sulfide ore roasting, fluidized bed drying.

23.1 Introduction

Fluidized bed applications are widespread in the environmental, chemical and process industries. This chapter presents applications of fluidized bed technology which are gaining importance because of their ability to bring high efficiency and low emissions to various processes, their excellent heat and mass transfer characteristics, good contact between gas and solid, and a wide range of operating conditions. This chapter intends to demonstrate the many versatile applications of fluidized bed technology.

Examples of the additional applications of fluidized bed technology presented are: fluid catalytic cracking (FCC), the reduction of iron ores, flue gas cleaning, the production of melamine and titanium oxide, the roasting of sulfide ores, and the drying of coal. A general overview of each process is presented, with a particular emphasis on the utilization of the fluidized bed reactor within the process, in order to demonstrate the role of fluidized bed reactors in comparison to other types of reactors. Moreover, process-specific

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