

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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Transnational Law & Contemporary Problems, 2013

Binge Drinking in the Adolescent and Young Brain Eduardo López-Caneda, Fernando Cadaveira, Salvatore Campanella, 2019-03-20 Binge drinking BD is a highly prevalent pattern in most Western countries

characterized by the intake of large amounts of alcohol in a short time followed by periods of abstinence This abusive form of alcohol consumption is a regular practice in around a third of European and American youths The high prevalence of BD at this age is of particular concern since adolescence and youth are in a period of special vulnerability to neurotoxic effects of alcohol mainly due to the structural and functional changes going on in the brain throughout this key developmental stage Evidence gathered during the last decade from animal and human studies seems to point to multiple brain anomalies associated with BD In this Research Topic we have collated a compendium of articles that address multiple aspects of BD during adolescence and young adulthood such as identification prevalence gender differences and neurocognitive anomalies associated with this excessive alcohol consumption pattern These articles collectively highlight the breadth of current research conducted in this field but also the need to join efforts to improve the screening of the BD pattern the characterization of its consequences as well as the translation of knowledge acquired in the laboratory into clinical practice We remain confident that this Research Topic will contribute significantly to the understanding of BD and its consequences and will further stimulate high quality investigation in this relatively new research field *Vernalization and Flowering*

Time: Celebrating 20 Years of FLC Richard Amasino,Elizabeth Dennis,Caroline Dean,Joanna Putterill,Christian

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