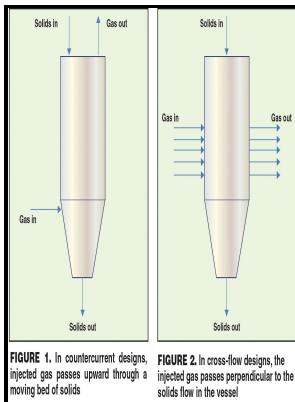


# Gas-solids handling in the process industries

## M. Dekker - Scrubbers: The Major Types of Industrial Scrubbers

Description: -



**FIGURE 1.** In countercurrent designs, injected gas passes upward through a moving bed of solids

**FIGURE 2.** In cross-flow designs, the injected gas passes perpendicular to the solids flow in the vessel

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Chemical processing and engineering ;Gas-solids handling in the process industries

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Tags: #Oil #and #gas #processing

**Bulk solids handling system design**

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regulation. Chapter 9 presents environmental aspects and the classification of the particulate materials after they have been handled by one of the above-mentioned processes. The different types of equipment available to separate Solid from Gas 4.

## Major Unit Operations and Processes: An Overview

There are multiple types of scrubbers that aid in this process, including wet, dry, and electrostatic scrubbers.

### Fundamental aspects of gas

This means that the entire industry sector is undergoing continuous change, continuously creating new potential applications for such a versatile machine as the decanter. However, scrubbers suffer from high levels of corrosion and produce slurry waste streams which are less convenient for recycling and disposal.

### Handbook of Conveying and Handling of Particulate Solids, Volume 10

Analysis and application of powder compaction diagrams P. Certainly the variety of materials being handled in bulk is almost endless, ranging in size from fine dust to rocks, in value from refuse to gold, and in temperature from deep-frozen peas to near-molten metal.

### Industrial Gas

Developments in wet scrubbers have allowed for increased efficiency in pollutant removal. In certain cases, these scrubbers remove pollutants that can be processed and be profitable as end products themselves. Humidity can be a factor with hygroscopic materials during processing, storage and shipment, causing material to cake together.

### Handbook of Conveying and Handling of Particulate Solids, Volume 10



The authors discuss flow through fixed beds, elutriation and entrainment, gas distributor and plenum design in fluidized beds, effect of internal tubes and baffles, general approaches to reactor design, applications for gasifiers and combustors, dilute phase pneumatic conveying, and applications for chemical production and processing. An overflow weir or a retaining disk in the liquid discharge zone separates the two phases, whereby oil and water can flow in separate chutes outside the rotor.

### **Bulk Solids Handling**

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