

4201

Pneumatic Conveying

DILUTE PHASE PNEUMATIC TRANSPORT PRINCIPLES

DESCRIPTION

Pneumatic conveying of solids has applications in several industries such as food, pharmaceutical, polymers, chemical process, mines and thermal power plants. Efficient conveying systems should be able to transport large amounts of solids continuously with minimum energy consumption. This course introduces practical concepts of design and evaluation of dilute phase pneumatic transport systems. Common industrial problems typically found in practice are discussed.

Contents:

- Basic elements and classification of pneumatic transport systems
- Saltation and choking velocities
- Pressure drop
- Fans and blowers
- Guide for pneumatic systems design
- Common industrial problems

TARGET AUDIENCE

Plant engineers and technicians, students, researchers, and anyone interested in the design and operation of dilute phase pneumatic conveying.

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