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Handbook of Pneumatic Conveying Engineering David Mills University of Newcastle Callaghan, New South Wales, Australia Mark G. Jones University of Newcastle Callaghan, New South Wales, Australia Vijay K. Agarwal Indian Institute of Technology Hauz Khaas, New Delhi, India MARCEL MARCEL DEKKER, INC. NEW YORK • BASEL

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The conveying of material-laden air with fans involves determining the bulk density of the material to be conveyed. An appropriate amount of dilution air will be determined and a fan selected. High-velocity air

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is used to carry dirt, weld fumes, grain, plastic materials, wood waste and paper trim from a process to a collection point.

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Abstract. Mechanical transport of food materials may be divided into fluid and solids transport. The mechanical transport of air, gases, and vapors is carried out by fans, blowers, compressors, vacuum pumps, and ejectors, which are discussed briefly in Appendix D (Utilities).

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A model for a pneumatic conveying dryer is presented, with the focus on the superheated steam drying of wood chips, although it can also be used for other porous materials and drying media. It includes a comprehensive 2D model for the drying of single wood chips, which accounts for the main physical mechanisms occurring in wood during ...

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