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For high pressure systems the influence of stepped pipelines can also be incorporated.Handbook of Pneumatic Conveying EngineeringPneumatic Conveying of Coal and Ash. 1 INTRODUCTION Millions of tons of coal are burnt in thermal power plants around the world. Thermal power constitutes more than half of the world's electric power generation [1]. The quality of the coal used varies widely from one country to another.Handbook of Pneumatic Conveying Engineeringdilute phase is probably the most common form of pneumatic conveying for this group of materials. A much higher conveying line inlet air velocity must be maintained for dilute phase systems, even if the material is capable of being conveyed in dense phase. Conveying line inlet air velocities are typically of the order of 2000 to 2400Handbook of Pneumatic Conveying EngineeringIn pneumatic conveying applications, fans used are normally of the radial, flat bladed type. Fans are widely used on short distance dilute phase systems, where the chance of blocking the pipeline is small. Fans may be used on both positive pressure and negative pressure systems, and also on combined 'suck-blow' systemsHandbook of Pneumatic Conveying EngineeringFigure 1.2 System reference points in relation to a negative pressure or vacuum conveying system. Filter Material in Feeder Compressor Air in Air out Material out 2 3 4 1. Discharge hopper Supply hopper. Figure 1.3 System reference points in relation to a positive pressure pneumatic conveying system.Pneumatic Conveying Design Guidea Handbook of pneumatic conveying engineering / c David Mills, Mark G. Jones, Vijay K. Agarwal. 260 a New York (N.Y.) : b Dekker ; a London : b Taylor and Francis, c 2004.Handbook of pneumatic conveying engineering - Ghent ...A. Levy, in Handbook of Powder Technology, 2001 Pneumatic conveying systems are widely used in the chemical, pharmaceutical and food industries. 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