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Local Exhaust Ventilation: Aerodynamic Processes and Calculations of Dust Emissions

Ivan Logachev, Konstantin Logachev, Olga Averkova

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Control Harmful Emissions and Improve Work Conditions

Local Exhaust Ventilation: Aerodynamic Processes and Calculations of Dust Emissions examines how emissions inherent to production processes in the metal, mining, chemical, and other industries can adversely affect the workplace by compromising a worker's health and/or contributing to the deterioration of equipment quality and performance. Professionals concerned with the aerodynamics of dust control ventilation, particularly at industrial plants, can greatly benefit from this book.

This text considers the impact of emissions exposure to occupational safety and health and the environment, explores the practical purposes of industrial ventilation, and outlines how local exhaust ventilation can help control the emission of harmful substances in industry. The book outlines methods used for surveying currents in local exhaust ventilation systems and deals with the aerodynamics of loose-matter handling in porous ducts and the identification of regularities in air circulation patterns in bypass ducts. Topics covered include the determination of vortex field boundaries, development dynamics of vortex flow patterns, and interaction between the exhaust plume and inflow jets.

Divided into two sections, this text:

- Examines the computations of gas-borne dust flows in local exhaust ventilation systems
- Provides practical recommendations for the energy-efficient containment of dust emissions
- Discusses basic approaches to operational energy savings for local exhaust ventilation systems
- Uses color photos throughout to illustrate dust behavior, flow lines, and patterns

Local Exhaust Ventilation: Aerodynamic Processes and Calculations of Dust Emissions establishes local exhaust ventilation as the most reliable way to control the emission of harmful substances. This text incorporates solutions that reduce material carryover rates and decrease the volume of air evacuated by suction, adequately reducing the dust level in an industrial work area, and can help solve a number of problems related to industrial ventilation.

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