

Industrial Air Quality and Ventilation: Controlling Dust Emissions

By Ivan Nikolayevich Logachev, Konstantin Ivanovich Logachev

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In the field of industrial ventilation and air quality, a lack of adequate analysis for aerodynamic processes, as well as a shortage of properly equipped computer facilities, has forced specialists to rely on an empirical approach to find answers in the past. Commonly based on crude models, practical data, or countertypes, the answers often offered have been imprecise.

Summarizing the results of the authors' research conducted over the past 40 years**, Industrial Air Quality and Ventilation: Controlling Dust Emissions** examines air injection in granular material streams and defines the closed hood capacity widely used in the mechanical reprocessing of minerals. This book introduces a methodological approach (dynamic theory) that broadens the range of granular materials, including inter-heated material. It considers the mechanisms of ejecting air in different variations from uniform air motion processes in closed chutes to the forming of accelerated air streams in a free particles flow. It also provides the scientific basics of calculation for local exhaust ventilation dust production (aspiration), and enables readers to accurately apply these results to the mechanical processing of various materials.

• Describes the engineering methods for calculating the amounts of aspirated air for various industries and technological units

• Assists in developing new environmentally clean and competitive advanced technologies and equipment for the processing of granular materials

• Proposes new technical solutions that are more sanitary and require less energy and water consumption

• Looks at specific industry examples of localization of release

Industrial Air Quality and Ventilation: Controlling Dust Emissions proposes low power consumption-based technical solutions and outlines more accurate methods of calculating recommended performance. Richly illustrated with practical suggestions and techniques, the text includes real-world applications in the field of aerodynamic processes within gravitational fluxes of granular material, and encourages the development of new environmentally clean and competitive advanced technologies and equipment for the processing of granular materials.

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Editorial Review

Review

"This book summarises the results of the authors research conducted over the past 40 years. …The conclusion reminds readers that the authors original research was aimed at improving the theoretical basis for design of ventilated suction hoods used for bulk material transfer groups and then to present their basic findings and resulting conclusions."
?ROSPA

"The book addresses the very complex topic of dust generation and fugitive emissions in industry. It provides detailed analyses, theories and data of numerous application areas ? with the aim of improving the design and operation of efficient dust control systems. I have not seen such a detailed study of this complex area before, and I am confident that the book will generate a great deal of interest in both the scientific and industry communities."
?Peter Wypych, Professor, University of Wollongong

"A solid academic treatise on the evolution of dust and particulates from conveying system transfer points, with a good amount of useful data to go with the theoretical equations."
?Eric Anderson, Consulting Engineer

About the Author

Ivan Nikolayevich Logachev graduated from the Kharkov Engineering Building Institute in 1962. The author of over 300 scientific papers, and more than 50 inventions and monographs, he is currently a professor at Belgorod State Technological University, Russia.

Konstantin Ivanovich Logachev graduated from the Dnepropetrovsk State University in 1992. Since 1995 he has worked at the Belgorod State Technological University. He is the author of over 150 scientific publications.

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The guide untitled Industrial Air Quality and Ventilation: Controlling Dust Emissions is the book that recommended to you to read. You can see the quality of the publication content that will be shown to you actually. The language that creator use to explained their ideas are easily to understand. The article writer was did a lot of investigation when write the book, and so the information that they share for you is absolutely accurate. You also can get the e-book of Industrial Air Quality and Ventilation: Controlling Dust Emissions from the publisher to make you much more enjoy free time.

Nathan Pope:

The reason? Because this Industrial Air Quality and Ventilation: Controlling Dust Emissions is an unordinary book that the inside of the guide waiting for you to snap this but latter it will shock you with the secret the item inside. Reading this book beside it was fantastic author who also write the book in such awesome way makes the content within easier to understand, entertaining means but still convey the meaning entirely. So , it is good for you because of not hesitating having this any longer or you going to regret it. This phenomenal book will give you a lot of gains than the other book get such as help improving your talent and your critical thinking approach. So , still want to hold off having that book? If I had been you I will go to the reserve store hurriedly.

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