

Development and Control of Dust Explosions

In all the diverse industries—from food and agriculture to plastics—where combustible dust exists, the possibility of an explosion looms as an ever-present threat. Gathering a wealth of practical, theoretical, and experimental data, this important work provides a state-of-the-art study of the Development and Control of Dust Explosions, promoting improved control over such hazards. Comprehensive in scope, this single-source reference presents invaluable guidelines for a wide variety of planning and operational activities, including calculation of explosion pressure and vent area required to minimize explosion damage. The development of mathematical models used in the evaluation of explosion phenomena, determination of the effect of numerous factors on explosion development, and control and prevention of the ignition of dust by eliminating the fines in a product. With this outstanding book, industrial, safety, mechanical, manufacturing, loss prevention, fire protection, and chemical engineers; as well as plant managers, operators, and designers; and all other specialists concerned with the possibility of dust explosions now have an authoritative reference. The book also serves as the basis for further research in this important field. In addition, the unique range of data included makes this volume ideal for in-house training programs, professional seminars, and college-level courses studying explosion safety and safety engineering.

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