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Aerosol Science: Theory And Practice



Synopsis

The subject of aerosols goes back many years and enters many aspects of science and technology. Optics, heat-transfer, biology, meteorology and pollution are just a few areas where the behaviour of small particles suspended in a gas is of vital importance. More recently, with increasing concern about the consequences of accidents in nuclear reactors and the effect of global nuclear war (i.e., the nuclear winter) a great deal of work has been directed towards the dispersal of radioactive aerosols in closed containers and in the atmosphere. The purpose of the book is twofold: to give a thorough treatment of the fundamentals of aerosol behaviour with rigorous proofs and detailed derivations of the basic equations and removal mechanisms and also to give practical examples with special attention to radioactive particles and their distribution in size following a release arising from an accident with a nuclear system. This book will be useful both as a course text and as a reference source.

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Customer Reviews

James H Vincent This book, aimed at the graduate level and beyond, is an important addition to the aerosol science literature in that it deals with a number of topics at levels of rigor and depth beyond those found in most other texts. In particular, the excellent chapters on the motion of particles (both single and multiple), aerosol dynamics, and particle rate processes in coagulation, condensation and deposition/resuspension provide definitive, in-depth treatments which will doubtless become points of reference for workers in many branches of aerosol science. *Journal of Aerosol Science*,

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