

1. Record Nr.	UNINA9911004767603321
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Titolo	Aerosol science for industrial hygienists / / James H. Vincent
Pubbl/distr/stampa	Tarrytown, N.Y. ; ; Oxford, : Pergamon, : Elsevier Science, 1995
ISBN	1-281-07254-0 9786611072544 0-08-052685-3
Descrizione fisica	1 online resource (431 p.)
Disciplina	615.9/02
Soggetti	Aerosols - Toxicology Indoor air pollution Industrial hygiene
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Aerosol Science for Industrial Hygienists; Copyright Page; Contents; PREFACE; Chapter 1. INTRODUCTION TO AEROSOLS; 1.1 What is an aerosol?; 1.2 'Good' versus 'bad' aerosols; 1.3 Workplace aerosols and occupational health; 1.4 Aerosols and gases; Chapter 2. THE PROPERTIES OF AIR AND GASES; 2.1 Introduction; 2.2 Basic nature of gases; 2.3 Elementary fluid mechanics; Chapter 3. PROPERTIES OF AEROSOLS; 3.1 Aerosol generation in workplaces; 3.2 The evolution of aerosols; 3.3 Particle morphology; 3.4 Aerosol concentration; 3.5 Particle size; 3.6 Elementary particle size statistics 3.7 Electrical properties 3.8 Mineralogical and chemical properties; 3.9 Biological properties; Chapter 4. THE MOTION OF AIRBORNE PARTICLES; 4.1 Introduction; 4.2 Drag force on a particle Drag; 4.3 Particle motion; 4.4 Similarity in particle motion; 4.5 Particle aerodynamic diameter; 4.6 Impaction; 4.7 Elutriation; 4.8 Aspiration; 4.9 Diffusion; Chapter 5. THE OPTICAL PROPERTIES OF AEROSOLS; 5.1 Introduction; 5.2 Physical basis; 5.3 Concept of extinction or transmittance; 5.4 Particle extinction coefficient; 5.5 Experimental measurements of extinction; 5.6 Light scattering 5.7 Particle scattering coefficient 5.8 Mass concentration aerosol photometry; 5.9 The visual appearance of aerosols; 5.10 Optical

microscopy; Chapter 6. THE INHALATION OF AEROSOLS; 6.1 Introduction; 6.2 The human respiratory tract; 6.3 Aerosol inhalation; 6.4 Experiments to investigate aerosol deposition in the respiratory tract; 6.5 Extrathoracic deposition; 6.6 Thoracic deposition; 6.7 Total respiratory tract deposition; 6.8 Deposition of fibrous aerosols; 6.9 Electrostatic respiratory tract deposition; 6.10 Mathematical modelling of lung deposition; Chapter 7. THE FATE OF INHALED PARTICLES 7.1 Introduction7.2 Biological mechanisms of clearance and re-distribution; 7.3 Experimental methods; 7.4 Studies of clearance and build-up; 7.5 Experimental studies of dust accumulation in lung-associated lymph nodes; 7.6 The significance of 'overload'; 7.7 Kinetics of clearance; 7.8 Dosimetry; Chapter 8. STANDARDS FOR HEALTH-RELATED AEROSOL MEASUREMENT AND CONTROL; 8.1 Introduction; 8.2 Progress towards criteria for measurement of coarse aerosols; 8.3 Progress towards criteria for the measurement of finer aerosol fractions 8.4 Harmonisation of criteria for aerosol standards Fibrous aerosols8.5 Standards; Chapter 9. AEROSOL SAMPLING IN WORKPLACES; 9.1 Introduction; 9.2 Sampling by aspiration; 9.3 Aspiration efficiency of thin-walled sampling probes in moving air; 9.4 Aspiration efficiency of blunt samplers; 9.5 Sampling from calm air; 9.6 Physical factors which can complicate sampler performance; 9.7 Sampling in stacks and ducts; 9.8 Sampling for coarse aerosols in workplaces; 9.9 Sampling for respirable aerosol in workplaces; 9.10 Practical sampling for thoracic aerosol

9.11 Sampling for more than one fraction simultaneously

Sommario/riassunto

Aerosols in workplace atmospheres have been - and continue to be - a major focus of industrial hygiene. Although there are many existing texts on aerosol science and on occupational health respectively, this new book sets out to be complementary to these and to provide a link between the two fields. In particular, the central concept of worker exposure leads to a structured approach which draws together wide-ranging aspects of aerosol science within the occupational health framework. Introductory chapters are concerned with the nature and properties of aerosols, and how they are generated

2. Record Nr.	UNISA996643371903316
Titolo	Librairie ancienne Clagahé, Lyon : catalogue 2011
Pubbl/distr/stampa	Lyon, : Librairie ancienne Clagahé, 2011
Descrizione fisica	128 p. : ill. ; 18 cm
Disciplina	018.444
Soggetti	Libri antichi - Cataloghi di vendita
Collocazione	I.2.C. 540
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia