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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 Introduction 7.2 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 aerosols 8.5 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

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## 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

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