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WILLIAM C. HINDS,
PhD, is a professor in
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nanoparticles can be classified into four major groups: (1) aerosol processes, (2) vapor deposition on substrates, (3) precipitation of insoluble products resulting from chemical reactions in a solution; and (4) mechanical attrition of bulk materials.

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Nanoparticle aerosol
science and
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Within the context of
aeroponics, an
aerosol is an
ensemble of solid
particles or liquid
droplets suspended in
a gas phase (Hinds,
1999). In nature,
plants including
epiphytic orchids and

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bromeliads absorb naturally occurring aerosols such as mist through leaves and aerial roots (Zotz & Winkler, 2013).

Getting to the roots of aeroponic indoor farming ...

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Evaporation. Rein
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where P_A is the partial pressure of component A and $P_T = \sum p_i$; is the total pressure of the system The saturation vapor pressure, also called the vapor pressure, is the pressure re-

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An aerosol
(abbreviation of "aero-
solution") is a
suspension of fine

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solid particles or
liquid droplets in air
or another gas.

Aerosols can be
natural or
anthropogenic.

Examples of natural
aerosols are fog, mist,
dust, forest exudates
and geyser steam. ...

Hinds, William C.

(1999). Aerosol

Technology (2nd ed.).

Wiley - Interscience.

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The primary mechanisms of lung deposition of inhaled respirable drug aerosol particles in the human lung consist of the 5 electromechanical processes: impaction, diffusion, interception, gravitational settling,

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and electrostatic effects, as depicted in Figure 1. 1,2 There are a number of mathematical models and computational tools developed to ...

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Aerosol settling time

over 1 meter as a

function of particle

size, assuming

spherical particles

with a density of

1000 kg/m³, an air

temperature of

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room technology
(integrated circuit
manufacture), and
nuclear waste
management.

Aerosols influence
many areas of our
daily life. They are at
the core of
environmental
problems such as
global warming,
photochemical smog

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and poor air quality.

They can also have diverse effects on

human health, where exposure occurs in both outdoor and indoor environments.

However, aerosols can have beneficial effects too; the delivery of drugs to the lungs, the delivery of fuels for combustion and the

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Technology of
nanomaterials all rely
on aerosols. Advances
in particle
measurement
technologies have
made it possible to
take advantage of
rapid changes in both
particle size and
concentration.

Likewise, aerosols can
now be produced in a
controlled fashion.

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Reviewing many technological applications together with the current scientific status of aerosol modelling and measurements, this book includes: • Satellite aerosol remote sensing • The effects of aerosols on climate change • Air pollution and health

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second edition was
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against bioterrorism agents that are highly infective when dispersed in aerosol form. Developing drugs to prevent or treat illnesses caused by bioterrorism agents requires testing their effectiveness in animals since human clinical trials would be unethical. At the

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request of NIAID, the National Academies conducted a study to examine how such testing could be improved.

Overcoming Challenges to Develop Countermeasures Against Aerosolized Bioterrorism Agents provides recommendations to researchers on

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selecting the kinds of animal models, aerosol generators, and bioterrorism agent doses that would produce conditions that most closely mimic the disease process in humans. It also urges researchers to fully document experimental parameters in the

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Literature so that studies can be reproduced and compared. The book recommends that all unclassified data on bioterrorism agent studies--including unclassified, unpublished data from U.S. Army Medical Research Institute of Infectious Diseases

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(USAMRIID)--be published in the open literature. The book also calls on the U.S. Food and Drug Administration to improve the process by which bioterrorism countermeasures are approved based on the results of animal studies.

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Technology: History and Reviews captures an exciting slice of history in the evolution of aerosol science. It presents in-depth biographies of four leading international aerosol researchers and highlights pivotal research institutions in New York, Minnesota, and

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the morphological,
physical and chemical
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understand the direct role of aerosol particles in scattering and absorbing short- and long-wave radiation.

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