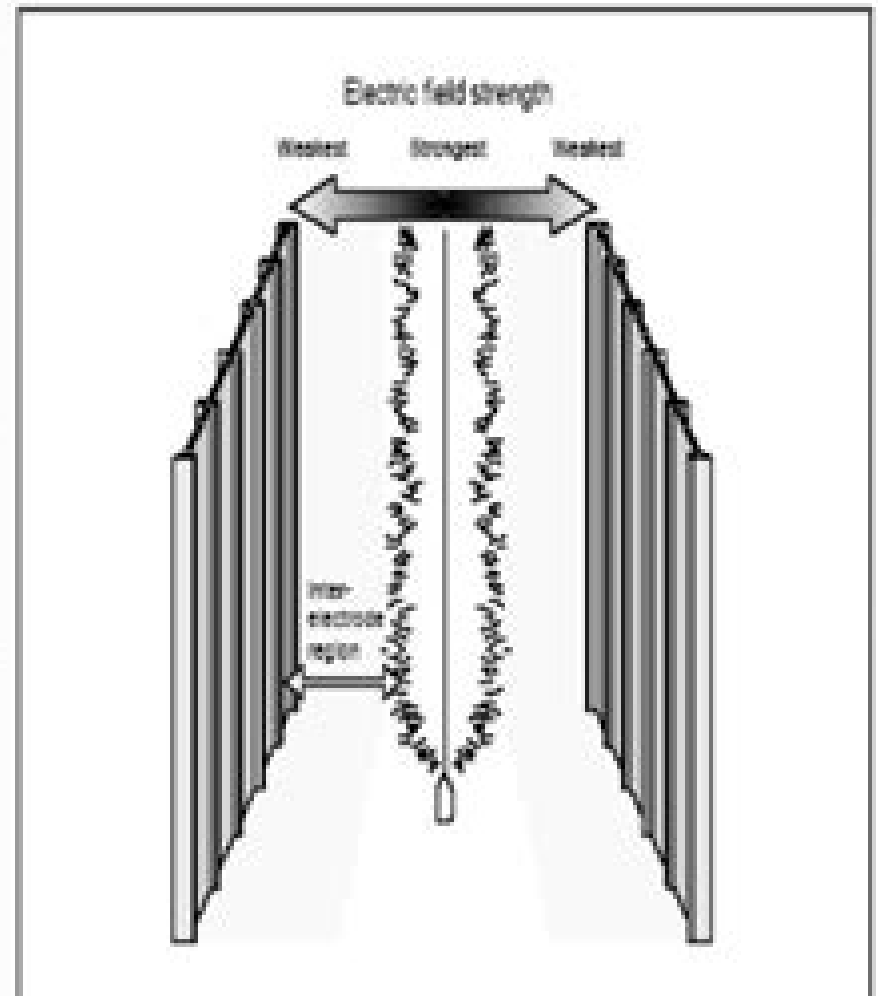
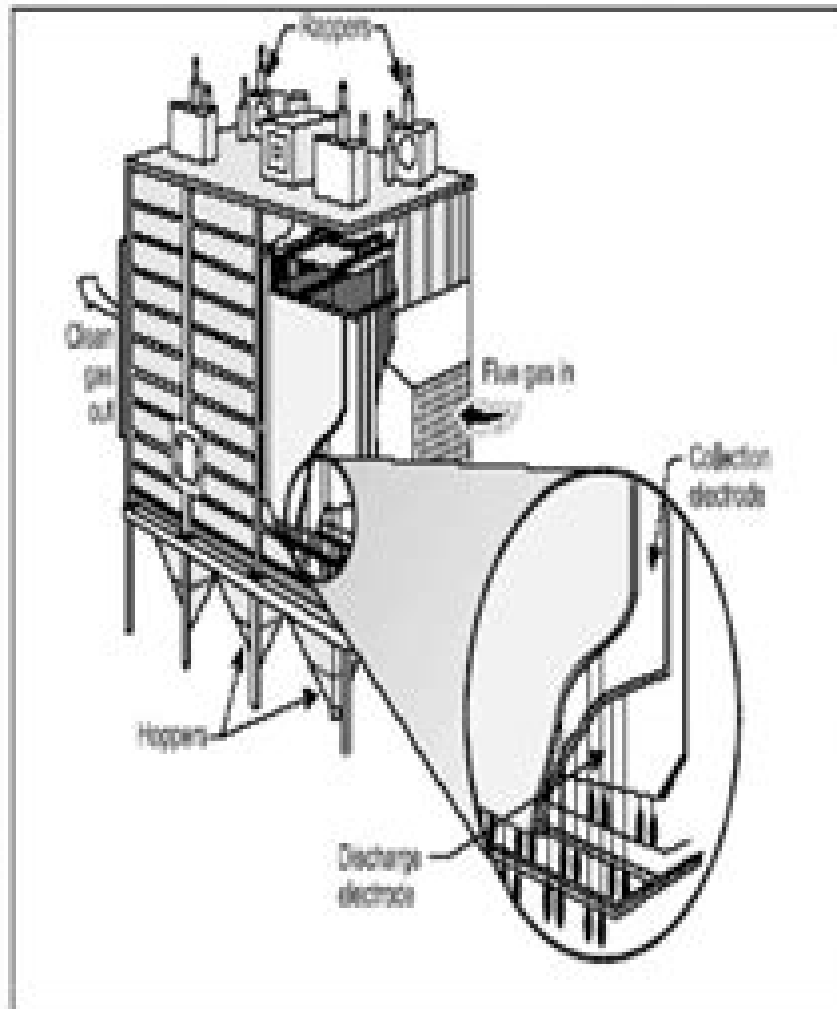


Particle Charging



Electrostatic Particle Charging

John R. Grace, Xiaotao Bi, Naoko Ellis



Electrostatic Particle Charging:

Electrostatic Particle Charging John Farrell Hughes,1997 A fundamental look at how individual solid particles may be electrically charged and manipulated in such a way as to be of practical use Powder coating precipitation and electrocopying are the three most familiar applications of charged particles In addition this books highlights less well known applications including those related to health care Provides wide coverage of applications including electrostatic control of airborne allergens Mathematics is kept to a minimum making the book accessible to newcomers as well as specialists in the field Includes discussion of future trends in this emerging field

Charging and Precipitation Characteristics of Sub-micron Particles in the Rohmann Electrostatic Particle Separator Thomas T. Mercer,1957

Electrostatic Precipitation Keping Yan,2010-07-19 Electrostatic Precipitation includes selected papers presented at the 11th International Conference on Electrostatic Precipitation It presents the newest developments in electrostatic precipitation flue gas desulphurization FGD selective catalytic reduction SCR and non thermal plasma techniques for multi pollutants emission control Almost all outstanding scientists and engineers world wide in the field will report their on going researches The book will be a useful reference for scientists and engineers to keep abreast of the latest developments in environmental science and engineering

Particle Charging in Electrostatic Precipitation Robert Richard Crynack,1972 *Handbook of Electrostatic Processes* Jen-Shih Chang,Arnold J. Kelly,Joseph M. Crowley,2018-12-14 Provides detailed comprehensive descriptions of electrostatic processes as well as their applications in areas such as rheology atomization and spraying industrial dust particle precipitation and filtering biomedical engineering gas treatments atmospheric electricity chemical reactors and electronic devices Summarizes electrostatic fundamentals and electrical phenomena in solids and fluids

High-Temperature Electrostatic Precipitation: Fundamentals, Phenomena and Feasibility Patrick Bürger,2023-07-03 Particle separation from hot gases is a challenging task especially for nanoparticles Therefore it is usually avoided by quenching the hot gas to conduct particle separation at a more convenient temperature In these cases valuable high caloric heat is either not utilized at all or only inefficiently because of particle deposition on the heat exchanger surfaces Valuable potential is thus wasted as high temperature processes are already an essential part of many industries and become increasingly relevant for other industrial sectors e g pyrolytic processes in the circular economy To reduce operating costs and environmental impact the efficient use of resources especially fossil fuels is an absolute necessity To tackle this pending problem the concept of high temperature electrostatic precipitation is investigated in this doctoral thesis In an electrostatic precipitator particles are charged by charge carriers produced in a corona discharge near the discharge electrode Charged particles migrate due to the electric field and subsequently precipitate onto the collection electrode This doctoral thesis clearly demonstrates the feasibility of nanoparticle removal from hot gases at up to 1073 K 800 C using electrostatic precipitation while presenting novel insights into the charge carrier properties and their distribution the influence of

thermionic emission on the operation of electrostatic precipitators and the fundamentals of particle charging at high temperatures

Electrostatic Dust Mitigation and Manipulation Techniques for Planetary Dust Nima Gharib, Javad Farrokhi Derakhshandeh, Peter Radziszewski, 2022-08-18

Electrostatic Dust Mitigation and Manipulation Techniques for Planetary Dust explains how to control and remove dust in space due to the presence of a vacuum abrasiveness of dust particles and electrostatic charge on particles. The book introduces innovative technologies that use electrostatic and dielectrophoretic forces to remove and transport small particles away from surfaces. In addition, it discusses how to resolve thermal control problems and reduce lung inhalation and eye irritation problems. The book includes two abrasive wear test devices that were designed to study the rate of volume wear for different materials when subjected to lunar dust simulant of different size ranges. This will be an ideal resource for space system engineers, space exploration researchers, and advanced students and professionals in space engineering. Provides a comprehensive background on lunar and Martian dust properties and challenges and compares currently available mitigation strategies. Highlights the problems from dust on various space systems and crew. Features discrete element models which were created and calibrated based on experimental results to study the capacity of the proposed technique for removing and cleaning dust in a planetary environment.

Charged Particle Beam Physics Sarvesh Kumar, Manish K. Kashyap, 2025-09-08

Offers a clear and practical introduction to the essentials of charged particle beam physics. Covers the design of accelerator machines and their basic components. A cornerstone of modern accelerator technology, charged particle beam physics encompasses theoretical principles, advanced simulations, and real-world applications. Charged Particle Beam Physics: An Introduction for Physicists and Engineers provides a comprehensive foundation for understanding modeling and implementing beam optics components in accelerator systems. Combining essential concepts with cutting-edge techniques such as the transfer matrix method and numerical simulation tools, this detailed yet accessible textbook simplifies the core concepts and principles of the complex field. Reader-friendly chapters systematically address ion sources, beam optics design, advanced diagnostic and vacuum systems, and more. Authors Sarvesh Kumar and Manish K. Kashyap discuss key topics such as electrostatic, magnetostatic, and radiofrequency fields, as well as practical applications in materials science, plasma physics, and radiation biology. Bridging theoretical knowledge with practical implementation, Charged Particle Beam Physics provides in-depth coverage of charged particle beam physics relevant to both single-pass configurations and standard beam transport lines across accelerator systems. Combines elements of electrodynamics, particle physics, optics, and engineering for a holistic understanding. Explores state-of-the-art methods such as open-source beam optics codes. Includes end-of-chapter problems and worked solutions along with numerical examples using open-source tools such as TRANSPORT and TRACE3D. Charged Particle Beam Physics: An Introduction for Physicists and Engineers is ideal for graduate-level students in physics and engineering courses focused on accelerator physics and beam optics, as well as researchers and professionals working in accelerator design and operation. It serves as

both a teaching resource and a reference for practitioners tackling fundamental calculations and developing accelerator components across various disciplines **Principles of Charged Particle Acceleration** Stanley Humphries, 2013-09-11 This authoritative text offers a unified programmed summary of the principles underlying all charged particle accelerators it also doubles as a reference collection of equations and material essential to accelerator development and beam applications The only text that covers linear induction accelerators the work contains straightforward expositions of basic principles rather than detailed theories of specialized areas 1986 edition **Applied Electrostatic Precipitation** K.R. Parker, 1997 Many industrial power generation and chemical processes produce unwanted fine particulate material as a consequence of their operation Electrostatic precipitation is a highly efficient method of removing entrained particulate contaminants from exhaust gases and is extensively used in these industries to limit particulate emissions New legislation aimed at improving the environment by further limiting these discharges has resulted in the technique undergoing considerable development over the past decade to the point where it has become the method of choice over a wide range of applications for limiting particulate discharges In this new book the editor has brought together an international team of contributors mainly industrialists and consultants to produce an authoritative and practical guide to electrostatic precipitation This book is of interest to all those in process industries or power generation and to academics concerned with gas cleaning and environmental issues **Handbook of Fluidization and Fluid-Particle Systems** Wen-Ching Yang, 2003-03-19 This reference details particle characterization dynamics manufacturing handling and processing for the employment of multiphase reactors as well as procedures in reactor scale up and design for applications in the chemical mineral petroleum power cement and pharmaceuticals industries The authors discuss flow through fixed beds elutriation and entrainment gas distributor and plenum design in fluidized beds effect of internal tubes and baffles general approaches to reactor design applications for gasifiers and combustors dilute phase pneumatic conveying and applications for chemical production and processing This is a valuable guide for chemists and engineers to use in their day to day work **Particles on Surfaces: Detection, Adhesion and Removal, Volume 9** Kash L. Mittal, 2006-06-01 This volume chronicles the proceedings of the 9th International Symposium on Particles on Surfaces Detection Adhesion and Removal held in Philadelphia PA June 2004 The study of particles on surfaces is crucially important in a legion of diverse technological areas ranging from microelectronics to biomedical to space This volume contains a to **Environmental Engineering Dictionary** C. C. Lee, 2005-04-08 This newly updated dictionary provides a comprehensive reference of hundreds of environmental engineering terms used throughout the field Drawing from many government documents and legal and regulatory sources this edition includes terms relating to pollution control technologies monitoring risk assessment sampling and analysis quality control and permitting This new edition now also includes fuel cell technology terms environmental management terms and basic environmental calculations Users of this dictionary will find exact and official Environmental Protection

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The Effects of Electrostatic Charge on Particle Flows and Deposition Pongpumin Poom Bunchatheeravate,2012 A method coupling small scale experimentation and computer simulation was devised to predict a particle s charge in pneumatic conveying systems Using this predictive method it was possible to accurately predict particle charging for both spherical and non spherical particles in any given pipe length under different air flow rates and particle mass flow rates The particle charge and morphology can lead to different depositions as seen by uncharged spherical particles These two parameters can lead to an improvement in the field of pulmonary deposition A technique using near infrared fluorescence was devised to visualize and quantify particle deposition in a complex airway Particles of various shapes and charges were sent into a bifurcating airway model Deposition of the charged particles depended upon the charge distribution of all the particles When uncharged particles were used the deposition indicated that low momentum particle deposition was a combination between inertial impaction and diffusion whereas high momentum particles deposited through inertial impaction and sedimentation

Particles on Surfaces: Detection, Adhesion and Removal Kash L. Mittal,2006-05-29 This volume chronicles the proceedings of the 9th International Symposium on Particles on Surfaces Detection Adhesion and Removal held in Philadelphia PA June 2004 The study of particles on surfaces is crucially important in a legion of diverse technological areas ranging from microelectronics to biomedical to space This volume contains a total of 21 papers covering many ramifications of particles on surfaces ranging from detection to removal All manuscripts were rigorously peer reviewed and revised and properly edited before inclusion in this book The topics covered include imaging and analysis of macro and nanosize particles and surface features determination of particles on surfaces laser inactivation on surfaces laser assisted nanofabrication on surfaces post CMP cleaning process pre gate cleaning solar panel obscuration in the Martian atmosphere adhesion and friction of micro sized particles microroughness of textile fibers and capture of particles factors affecting particle adhesion and removal various techniques for cleaning or removal of particles from different substrates including laser combination of laser induced shockwave and explosive vaporization of liquid attenuated total internal reflection of laser light CO2 snow use of dense phase fluids use of surfactants and impinging air jet and removal of sub 100 nm particles

Recycling and Reusing of Engineering Materials Waseem S. Khan,Eylem Asmatulu,Md. Nizam Uddin,Ramazan Asmatulu,2022-06-02 Recycling and Reusing of Engineering Materials Recycling for Sustainable Developments covers the

latest research and developments in recycling and reusing processes including new fundamental concepts techniques methods and process flows The book provides applications of these novel technologies to recycling processes and analyzes new and modern ways of recycling techniques It provides a comprehensive literature review on fundamental aspects of recycling processes recycling goals characterization of waste streams legislative policies and evaluation electronic recycling aircraft recycling recycling processes energy savings and issues environmental issues societal issues recycled materials market development for recycling processing facilities and awareness and importance of recycling safety The book is an indispensable reference for researchers in academia and industry Scientists can use this book for literature reviews and experimental details and the industry can use its comprehensive detail for literature reviews and to upgrade their processes and systems Provides the latest information on recycling and reusing processes Includes the results of laboratory experiments from the recycling of electronic waste recycling of composites and of aircraft and plastics Covers radioactive waste treatment and biological waste disposal Written by a team of authors with teaching and industrial experience

Solid—Gas Separation Ladislav Svarovsky, 2013-10-22 Solid Gas Separation presents a brief and highly technical account of the principles and technology of gas cleaning The book deals with three associated aspects of gas cleaning the relevant dimensionless groups the efficiency of separation and the economics of gas cleaning The text begins with the discussion of the principles of particle separation and classification of equipment general characteristics of equipment and dimensionless groups for modeling and equipment scale up Subsequent chapters are devoted to the examination of the efficiency of separation aero mechanical dry separators scrubbers electrostatic precipitators and filters The last chapter deals with the economics of gas cleaning equipment selection Environmental and industrial engineers will find the text very useful

Introduction to Plasma Technology John Ernest Harry, 2010-11-15 Written by a university lecturer with more than forty years experience in plasma technology this book adopts a didactic approach in its coverage of the theory engineering and applications of technological plasmas The theory is developed in a unified way to enable brevity and clarity providing readers with the necessary background to assess the factors that affect the behavior of plasmas under different operating conditions The major part of the book is devoted to the applications of plasma technology and their accompanying engineering aspects classified by the various pressure and density regimes at which plasmas can be produced Two chapters on plasma power supplies round off the book With its broad range of topics from low to high pressure plasmas from characterization to modeling and from materials to components this is suitable for advanced undergraduates postgraduates and professionals in the field

Industrial Ventilation Design Guidebook Howard D. Goodfellow, Yi Wang, 2021-06-04 Industrial Ventilation Design Guidebook Volume 2 Engineering Design and Applications brings together researchers engineers both design and plants and scientists to develop a fundamental scientific understanding of ventilation to help engineers implement state of the art ventilation and contaminant control technology Now in two volumes this reference

contains extensive revisions and updates as well as a unique section on best practices for the following industrial sectors Automotive Cement Biomass Gasifiers Advanced Manufacturing Industrial 4 0 Non ferrous Smelters Lime Kilns Pulp and Paper Semiconductor Industry Steelmaking Mining Brings together global researchers and engineers to solve complex ventilation and contaminant control problems using state of the art design equations Includes an expanded section on modeling and its practical applications based on recent advances in research Features a new chapter on best practices for specific industrial sectors

Essentials of Fluidization Technology John R. Grace,Xiaotao Bi,Naoko Ellis,2020-06-15 A concise and clear treatment of the fundamentals of fluidization with a view to its applications in the process and energy industries

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