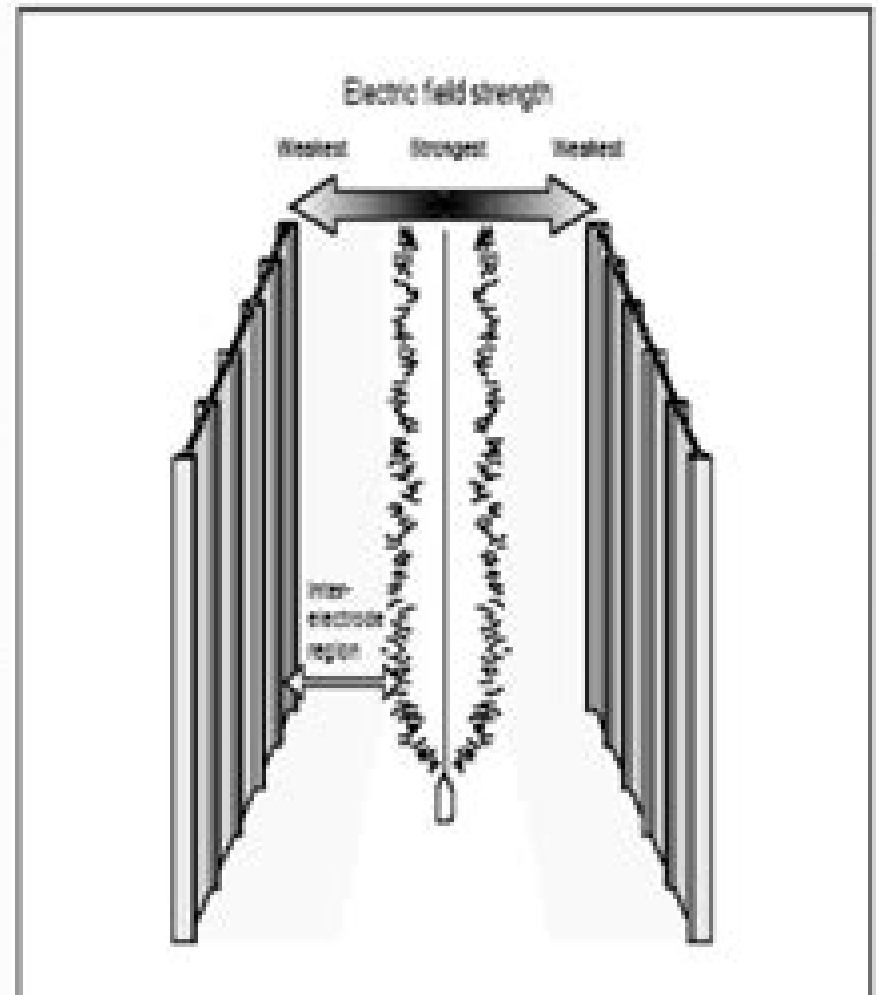
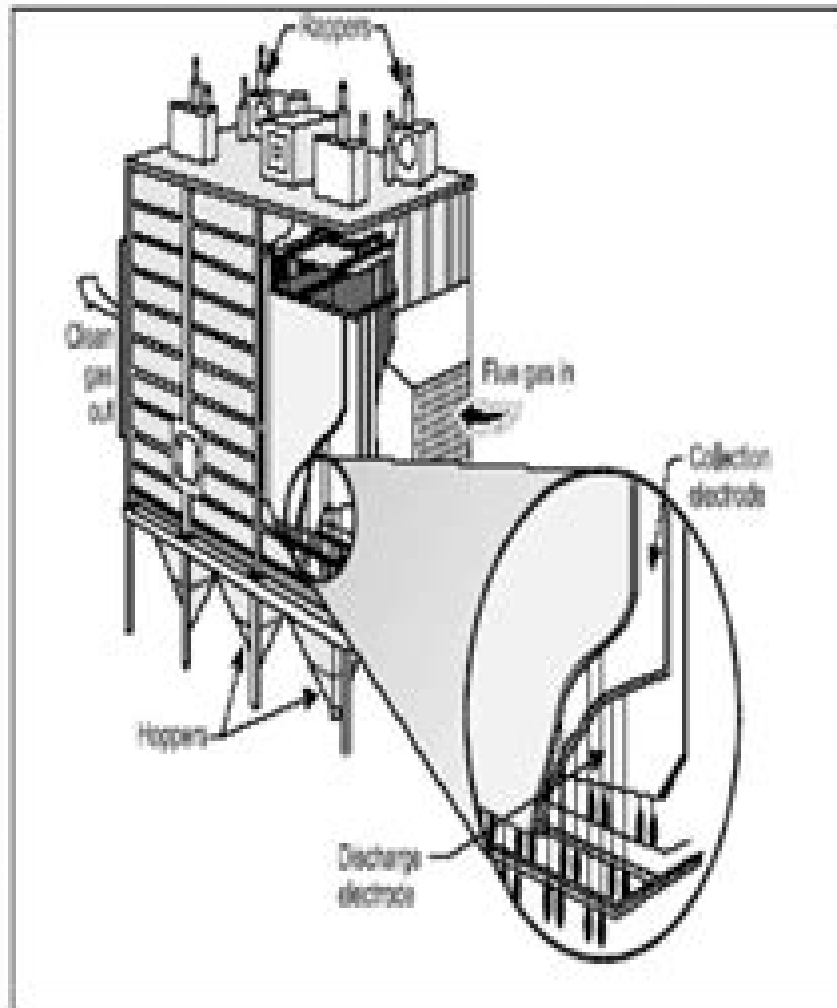


Particle Charging



Electrostatic Particle Charging

Kash L. Mittal



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 *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 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 **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

Charged Particle Beam Physics Sarvesh Kumar, Manish K. Kashyap, 2025-11-03 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

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 Agency definitions for environmental terms that are statute related regulation related science related and engineering related including terms from the following legal documents Clean Air Act Clean Water Act CERCLA EPCRA Federal Facility Compliance Act Federal Food Drug and Cosmetic Act FIFRA Hazardous and Solid Waste Amendment OSHA Pollution

Prevention Act RCRA Safe Drinking Water Act Superfund Amendments and Reauthorization Act and TSCA The terms included in this dictionary feature time saving cites to the definitions source including the Code of Federal Regulations the Environmental Protection Agency and the Department of Energy A list of the reference source documents is also included

Charging and Precipitation Characteristics of Sub-micron Particles in the Rohmann Electrostatic Particle Separator Thomas T. Mercer,1957 **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 **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 Particles** Malek Maaza,Mahmoud Izerrouken,2019-02-20 A charged particle is a particle that carries an electric charge and can be discussed in many aspects This book focuses on cutting edge and important research topics such as flavor physics to search for new physics via charged particles that appear in different extensions of the standard model as well as the analysis of ultra high energy muons using the pair meter technique Also included in this book are the idea of the Elosatron to PeVatron the important research field of electrostatic waves in magnetized electron positron plasmas and the application of charge bodies

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 Particle Charging in Electrostatic Precipitation Robert Richard Crynack,1972

Electrostatics 2003 Morgan,2004-05-01 Modern electrostatics impact a diverse range of fields from micromachines and microsystems to the development of protective clothing for the electronics manufacturing industry Electrostatics 2003 provides coverage on applications of electrostatics in various areas of physics and technology It also presents recent research and developments in electrostatics The book provides an overview of the latest advances in electrostatics covering areas such as new measurement testing and characterization techniques instrumentation design numerical modeling electrostatics hazards and the applications of electrostatics in the environment This book is an authoritative reference for all scientists and engineers researching techniques and applications of electrostatics

Focusing of Charged Particles Albert Septier,2013-10-22 Focusing of Charged Particles Volume I deals with the various aspects of problems in corpuscular optics such as the need for new focusing principles to guide the beams of fast particles over long distances and to increase the internal efficiency of particle accelerators This volume is comprised of articles from specialists who attempt to find solutions to various problems in geometrical corpuscular optics The topics discussed in the book include the general properties of potentials fields and trajectories the methods for resolving Laplace s and Poisson s equations and computing trajectories with or without space charge and a description of the methods used for the measurement of magnetic fields The optics of straight axis systems for producing and focusing low intensity beams high brightness electron guns electrostatic and magnetic electron lenses and strong focusing lenses for high energy beams are covered as well The text ends with the elucidation of the problem of the production of electron microprobes Physicists students researchers and engineers working with charged particles will find the book invaluable

Powder Technology Handbook, Fourth Edition Ko Higashitani,Hisao Makino,Shuji Matsusaka,2019-10-16 The Fourth Edition of Powder Technology Handbook continues to serve as the comprehensive guide to powder technology and the fundamental engineering processes of particulate technology while incorporating significant advances in the field in the decade since publication of the previous edition The handbook offers a well rounded perspective on powder technologies in gas and liquid phases that extends from particles and powders to powder beds and from basic problems to actual applications This new edition features fully updated and new chapters written by a team of internationally distinguished contributors All content has been updated and new sections added on Powder Technology Handbook provides methodologies of powder and particle handling technology essential to scientific researchers and practical industrial engineers It contains contemporary and comprehensive information on powder and particle handling technology that is extremely useful not only to newcomers but also to experienced engineers and researchers in the field of powder and particle science and technology

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

Powder Technology Hiroaki Masuda, Ko Higashitani, Hideto Yoshida, 2006-11-29 Drawing from the third edition of the bestselling Powder Technology Handbook this book concentrates on handling methods and unit operations for powder and particle processing techniques It examines the purpose and factors involved in each process including planning equipment measurements and other necessary considerations This book c

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