

Particle statistics

In a famous series of calculations published in Klug and Alexander it was calculated that IF a powder was crushed to 1 micron in size, the amount of powder in a large cavity mount, would be barely sufficient to achieve 1% reproducibility in intensity.

This calculation assumed a single point detector having a small detection volume which in this example, at 1 micron, would detect 38,000 out of 38 billion particles in the sampling volume. Notice the dramatic increase in available particles as the size is decreased.

How many particles do you need for 1% accuracy in intensity

	<u>40μm</u>	<u>10μm</u>	<u>1μm</u>
# diffraction particles	12	760	38000

To achieve 1% accuracy

$$\sigma = \sqrt{n}/n$$

$$\text{Std. err.} = 2.3 \sigma < 1\%$$

$$n > 52,900 \leftarrow$$



Small Particle Statistics An Account Of

Richard A. Schmidt



Small Particle Statistics An Account Of:

Small Particle Statistics Gustav Herdan, Mervyn Leslie Smith, 1953 *Small Particle Statistics* Gustav Herdan, 1960

Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa United States. Bureau of Mines. Technical Library, Pittsburgh, 1968 *Small Particle Statistics* G. Herdan, 1960 **Nuclear Science Abstracts**

, 1973 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

A Survey of Data on Microscopic Extraterrestrial Particles Richard A. Schmidt, 1965 *Oceanic Whitecaps* E.C. Monahan, Gearóid Mac Niocaill, 2012-12-06 **Analytical Chemistry in Nuclear Reactor Technology** C. D. Susano, 1959 **Testing the Validity of the Lognormal Probability Model** Wayne R. Ott, David T. Mage, Victor W. Randecker, 1979 **The Industrial Environment, Its Evaluation & Control**, 1973 **DHHS Publication No. (NIOSH).**, 1973 *Aerosol Technology In Hazard Evaluation* Thomas

Mercer, 2012-12-02 *Aerosol Technology in Hazard Evaluation* is the fifth in the series of books on the subject of aerosol technology This series is organized into nine chapters that cover the properties sampling and respirable activity of aerosol After briefly describing the nature of an inhalation hazard the book examines the properties measurement and significance of geometric diameters of aerosols as well as the shape factors relating them to various particulate properties The mathematical description of size distributions and the statistics of sampling from a lognormal distribution of particle sizes are provided Considerable chapters deal with the methods of aerosol concentration measurement and geometric and aerodynamic size sampling Operating characteristics of respirable aerosol activity samplers and their limitations are also examined The concluding chapter discusses problems in the production flow measurement apparatus calibration and isokinetic sampling of aerosols This series will provide a convenient source of information to those concerned in industrial hygiene and will stimulate the interest of those involved in all phases of environmental health **Surface Area**

Determination D. H. Everett, R. H. Ottewill, 2013-09-17 *Surface Area Determination* covers the proceedings of the International Symposium on Surface Area Determination The title presents 35 papers that are organized into nine parts the papers primarily emphasize the methods for surface area determination The coverage of the book includes methods such as the BET method low adsorption methods and flow methods The text also reviews papers about various types of surface including heterogeneous surfaces porous solids clays and small area surfaces The book will be of great use to researchers

and practitioners of disciplines that involve surface area determination such as chemistry chemical engineering and chemical physics *Scientific and Technical Aerospace Reports* ,1969 Modern Methods of Particle Size Analysis Howard G. Barth,1984-09-11 Specialists in the field discuss the latest developments in particle size analysis presenting an overview of state of the art methodologies and data interpretation Topics include commercial instrumentation photon correlation spectroscopy Fraunhofer Diffraction field flow fractionation and detection systems for particle chromatography

EPA-600/4 ,1979-06 Statistical and Thermal Physics Michael J.R. Hoch,2021-05-20 Thermal and statistical physics has established the principles and procedures needed to understand and explain the properties of systems consisting of macroscopically large numbers of particles By developing microscopic statistical physics and macroscopic classical thermodynamic descriptions in tandem Statistical and Thermal Physics An Introduction provides insight into basic concepts and relationships at an advanced undergraduate level This second edition is updated throughout providing a highly detailed profoundly thorough and comprehensive introduction to the subject and features exercises within the text as well as end of chapter problems Part I of this book consists of nine chapters the first three of which deal with the basics of equilibrium thermodynamics including the fundamental relation The following three chapters introduce microstates and lead to the Boltzmann definition of the entropy using the microcanonical ensemble approach In developing the subject the ideal gas and the ideal spin system are introduced as models for discussion The laws of thermodynamics are compactly stated The final three chapters in Part I introduce the thermodynamic potentials and the Maxwell relations Applications of thermodynamics to gases condensed matter and phase transitions and critical phenomena are dealt with in detail Initial chapters in Part II present the elements of probability theory and establish the thermodynamic equivalence of the three statistical ensembles that are used in determining probabilities The canonical and the grand canonical distributions are obtained and discussed Chapters 12 15 are concerned with quantum distributions By making use of the grand canonical distribution the Fermi Dirac and Bose Einstein quantum distribution functions are derived and then used to explain the properties of ideal Fermi and Bose gases The Planck distribution is introduced and applied to photons in radiation and to phonons on solids The last five chapters cover a variety of topics the ideal gas revisited nonideal systems the density matrix reactions and irreversible thermodynamics A flowchart is provided to assist instructors on planning a course Key Features Fully updated throughout with new content on exciting topics including black hole thermodynamics Heisenberg antiferromagnetic chains entropy and information theory renewable and nonrenewable energy sources and the mean field theory of antiferromagnetic systems Additional problem exercises with solutions provide further learning opportunities Suitable for advanced undergraduate students in physics or applied physics Michael J R Hoch spent many years as a visiting scientist at the National High Magnetic Field Laboratory at Florida State University USA Prior to this he was a professor of physics and the director of the Condensed Matter Physics Research Unit at the University of the Witwatersrand Johannesburg where he is currently

professor emeritus in the School of Physics

Chemical Engineering Volume 2 J H Harker, J R Backhurst, J.F.

Richardson, 2013-10-22 Chemical Engineering Volume 2 covers the properties of particulate systems including the character of individual particles and their behaviour in fluids Sedimentation of particles both singly and at high concentrations flow in packed and fluidised beds and filtration are then examined The latter part of the book deals with separation processes such as distillation and gas absorption which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1 In conclusion several techniques of growing importance adsorption ion exchange chromatographic and membrane separations and process intensification are described A logical progression of chemical engineering concepts volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross referenced Reflects the growth in complexity and stature of chemical engineering over the last few years Supported with further reading at the end of each chapter and graded problems at the end of the book **Air**

Pollution Abstracts ,1970

The Particle Size Distribution and Bulk Permeability of Oil Shale Rubble D. B. Lombard, 1965

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