

## 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

**Wayne R. Ott, David T. Mage, Victor W.  
Randecker**



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*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

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Jones, 2003-12-01 The invention of the laser was one of the towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists a

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Testing the Validity of the Lognormal Probability Model Wayne R. Ott, David T. Mage, Victor W. Randecker, 1979

**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 **Analytical Chemistry in Nuclear Reactor Technology** C. D. Susano, 1959 **Oceanic**

**Whitecaps** E.C. Monahan, Gearóid Mac Niocaill, 2012-12-06 *The Industrial Environment, Its Evaluation & Control*, 1973

DHHS Publication No. (NIOSH), 1973 Scientific and Technical Aerospace Reports, 1969 **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     *EPA-600/4* ,1979-06

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