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Reviews

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(Janie Schultz I)*

USE OF THE ELECTROSTATIC CLASSIFICATION METHOD TO SIZE 0.1 MICROMETER SRM PARTICLES: A FEASIBILITY STUDY (CLASSIC REPRINT) (HARDBACK)

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Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Use of the Electrostatic Classification Method to Size 0.1 Micrometer Srm Particles: A Feasibility Study The electrostatic classifier used in this project is a commercially available instrument (tsi, Inc., Model Figure 3 shows a schematic diagram of the instrument. The classifying region is bounded by a stainless steel outer cylinder with an inner diameter of cm, and a coaxial, stainless steel center rod with an diameter of cm. The center rod is connected to a variable 0 to V) negative dc power supply, and the outer cylinder is grounded. By varying the center rod voltage, the electric field in the annular region can be varied from 0 to about V/cm. Clean sheath air, after passing through a fine mesh flow straightening screen at the top of the classifier, flows axially through the annular region along the center rod. A smaller, polydisperse aerosol flow enters through an axisymmetric opening along the outer cylinder. The clean air flow forces the aerosol to flow downward in a thin layer on the outer wall of the classifying region. It is essential that these two streams merge smoothly without mixing. Near the bottom of the classifying region, a slit on the center rod extracts a fraction of the air flow consisting of near-monodisperse (single sized) aerosol particles. The remainder of the air flow exits through the end of the annular region as excess air. The length of the classifying region (cm) is defined as the axial distance from the aerosol entrance to the aerosol exit at the slit in the center rod. Before entering the classifying region, the particles are sent through a charge neutralizer. The neutralization occurs through interaction with bi-polar...

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