



SUPERFINE PARTICLE TECHNOLOGY

By Noboru Ichinose

Springer. Paperback. Book Condition: New. Paperback. 223 pages. Dimensions: 9.2in. x 6.1in. x 0.5in. If a substance is repeatedly subdivided, the result is what are known as microscopic particles. These particles are distinguished from the solid mass which they originally formed by the size of the surface area per unit weight. This simple difference holds true down to a certain lower size limit, and when this limit is exceeded, a new state of matter is reached, in which the behavior of the particles is quite different to that of the original solid. Particles in this state are termed superfine particles, and are distinct from ordinary particles. The size of the superfine particles, that is to say the size limit below which particle behavior is completely different from the behavior of the original solid, varies a good deal depending on the physical properties of the substance in question. Properties such as magnetism and electrical resistance are closely related to the internal structural properties of the particles themselves, such as the magnetization processes of their respective magnetic domains, and the mean free path of charged bodies. This internal structure therefore limits the size of the superfine particles. In ceramic processing, on the other...

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