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Experimental determination of density, root mean square and molecular velocity of an atom

Salako N Olatunji

Federal institute of industrial research, Nigeria

Each substance that crystallizes does so according to a particular geometric arrangement. The simple repeating unit in this arrangement is called unit cell. Atoms on the corner, edges, and faces of a unit cell are shared by more than one unit cell. An atom on an edge is shared by four unit cells and an atom on a corner is shared by eight unit cells. Thus, only a corner can be assigned to each of the unit cells that share these atoms. Let consider Calcium atom. Calcium is one of the metals that crystallized in a cubic closest – packed structure. When you consider that

Calcium atom has a mass of 6.655264×10^{-23} g and atomic radius of only 1.97×10^{-10} m, it is remarkable achievement to be describe the structure of this metal. The obvious question is: How do we know that a Calcium pack is in a cubic closest – packed structure? This could be known by studying the structure of the these atoms under a scale that is based on electromagnetic radiation such as X-ray, Magneto hydrodynamics(MHD),IR Spectrophotometer and others Analytical tools.

Biography

Salako N. Olatunji expertise in quantum physics, also on determination of numerical value of dimension on physical quantities. Root mean square velocity and molecule velocity of all chemical elements which is never done before. stoichiometry and periodic properties table that shows the "Intrinsic and Extrinsic properties" of all chemical elements. Determination of Molecular Mass and Formula for Air. Computational Mathematics and Application of Small organic Molecules. Antidote of chemical mass weapon (2, 3, 7, 8 - Tetrachlorobenzo-p-dioxin). Critical cGMP and ICH regulations for Pharmaceutical Laboratory. Pollution or environmental remediation studies, anthropogenic effect on petroleum. Synthetic of compound for biological evaluation. Synthetic of helium compound, which is another source of sun. Research on Oil Dispersant. Production of antidote of chemical and biological agent poisoning.

salakoolatunji9@gmail.com

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