



Configurational Model of Matter (Paperback)

By G V Samsonov

Springer-Verlag New York Inc., United States, 2012. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.The book we are presenting to American and other English-speaking readers is a review of the work on the electron structure of elements, alloys, and compounds, which was started back in the fifties. This work gradually grew into a system of ideas on the electron structure of condensed matter which is now known as the configurational model. This model is based on the assumption of the preferential formation of the most stable configurations of the localized valence electrons in condensed matter. The existence of these stable configurations and the exchange of electrons with the delocalized (collective-state) subsystem determines those properties which are related to the electron structure. The conclusions which can be drawn from the applications of the configurational model are only qualitative but they explain quite clearly the nature of various properties of condensed matter, and they are helpful in the search for materials with specified properties. The American edition has been corrected and supplemented in many minor respects. Moreover, the opportunity was taken to revise thoroughly...



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