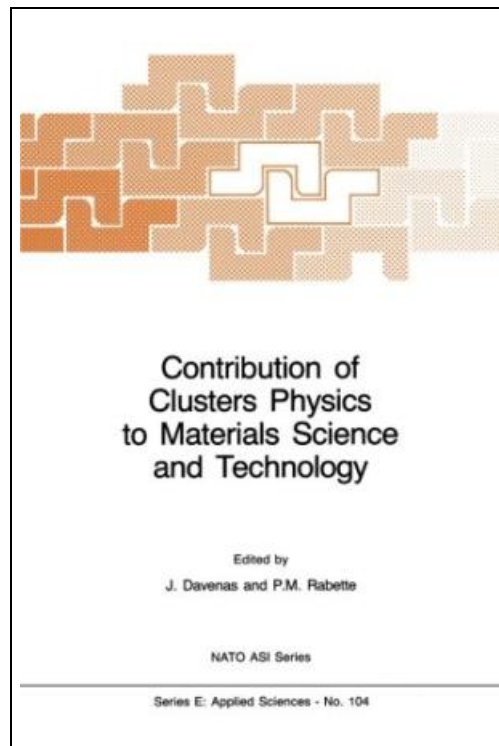


Contribution of Clusters Physics to Materials Science and Technology: From Isolated Clusters to Aggregated Materials



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Reviews



It is one of my personal favorite books. It is written in easy terms and never hard to understand. It has been designed in an exceedingly easy way and it is only after I finished reading this publication by which in fact changed me, change the way I think.
(Lucinda Stiedemann)

CONTRIBUTION OF CLUSTERS PHYSICS TO MATERIALS SCIENCE AND TECHNOLOGY: FROM ISOLATED CLUSTERS TO AGGREGATED MATERIALS



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Springer, Netherlands, 2011. Paperback. Book Condition: New. 235 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.During the last decade there has been an increasing interest in clusters and small particles because of the peculiar properties induced by their large area to volume ratio. For that reason small particles are often considered as an intermediate state of matter at the border between atomic (or molecular) chemistry, and physics of the condensed matter. The importance of the surface effect can explain the anomalous properties, for example the existence of the five fold symmetry observed in different circumstances (beams of rare gas clusters, gold particles deposited on a substrate). However the question of the critical size at which the transition to bulk properties occurs cannot be simply answered, since the reply depends on the peculiar property which is studied. The importance of the size effect was emphasized in the last International Meetings. However the situation remains confused in most cases since the exact role of the cluster environment cannot be clearly elucidated and is a main difficulty, except in cluster beam experiments. In fact ideally free clusters constitute a laboratory exception. In most applications small particles must be supported on a surface or embedded in a matrix, in order to be stabilized, which obviously shows the role of the environment. Softcover reprint of the original 1st ed. 1986.

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