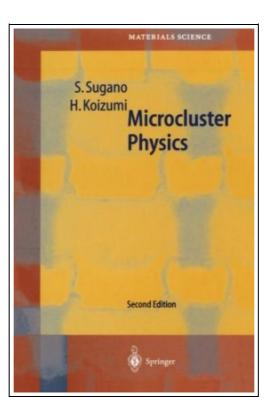
Microcluster Physics



Filesize: 8.62 MB

Reviews

These types of book is the greatest ebook readily available. I was able to comprehended every little thing using this published e pdf. I realized this pdf from my dad and i encouraged this publication to discover. (Dr. Porter Mitchell)

MICROCLUSTER PHYSICS



To download **Microcluster Physics** eBook, remember to follow the web link below and download the file or gain access to other information which are have conjunction with MICROCLUSTER PHYSICS ebook.

Book Condition: New. Publisher/Verlag: Springer, Berlin | A lucid account of the fundamental physics of all types of microclusters, outlining the dynamics and static properties of this new phase of matter between a solid and a molecule. Since the book's first publication, the field of microclusters has experienced surprising developments, which are reviewed in this new edition: The determination of atomic structure, spontaneous alloying, super-shell, fission, fragmentation, evaporation, magnetism, fullerenes, nanotubes, atomic structure of large silicon clusters, superfluidity of a He cluster, water clusters in liquid, electron correlation and optimizsation of the geometry, and scattering. | 1. What are Microclusters?.- 1.1 Constituent Small Particles of Material.- 1.2 Division of the Materials.- 1.2.1 Fine Particles.- 1.2.2 Microclusters.- 1.2.3 Molecules.-1.3 Shell Periodicity of Atomic Structure.- 1.3.1 Fundamental Polyhedra.- 1.3.2 Magic Numbers due to Atomic Shells.- 2. Dynamics of Atomic Structure.- 2.1 Solid-like, Liquid-like, or Fluctuating?.- 2.1.1 Naive Questions.- 2.1.2 Atomic Structure of Adsorbed Microclusters.- 2.2 Coexistence of Solid-like and Liquid-like Phases.- 2.3 Fluctuating States and Permutation Isomers.- 2.3.1 The Case of N = 6.- 2.3.2 The Case of N = 7.- 2.3.3 Fluctuation in Large Clusters.- 2.4 Monte-Carlo Simulations.- 2.4.1 Lennard-Jones Clusters Constrained to Spherical Cavities.- 2.4.2 Transition-Metal Clusters of N = 7÷17.- 2.4.3 Effect of Magnetic Interactions.- 2.5 Spontaneous Alloying.- 3. Shell Structure of Metal Clusters.- 3.1 Magic Numbers.- 3.2 The Jellium Model.- 3.2.1 Electronic Structure of NaN Clusters.- 3.2.2 Spin Polarization and the Formation of Multiplets.- 3.2.3 Nonspherical Perturbation.- 3.3 Theory of Shell Correction.- 3.3.1 Essence of the Theory.- 3.3.2 Shell Correction for the Harmonic-Oscillator Model.- 3.3.3 Smoothed-Level Density.- 3.3.4 Liquid-Drop Model for Charged Metal Clusters.- 3.4 Deformation.- 3.4.1 Application of the Shell-Correction Theory.-3.4.2 Fine Structures of Mass Spectra and Other Properties.- 3.5 Fission.- 3.5.1 Stability of a Charged Liquid Drop.- 3.5.2 Shell-Correction Calculation for Fission.- 3.6 Shell...

Read Microcluster Physics Online

Download PDF Microcluster Physics

See Also

\rightarrow

[PDF] Would It Kill You to Stop Doing That?
Follow the web link beneath to download "Would It Kill You to Stop Doing That?" document.
Download eBook

\rightarrow

[PDF] Violet Rose and the Surprise Party

Follow the web link beneath to download "Violet Rose and the Surprise Party" document.
Download eBook

\rightarrow	

[PDF] Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition) Follow the web link beneath to download "Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)" document.

Download eBook

<u> </u>

[PDF] TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)

Follow the web link beneath to download "TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)" document. Download eBook

\rightarrow	

[PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

Follow the web link beneath to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" document. Download eBook

\rightarrow

[PDF] The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3

Follow the web link beneath to download "The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3" document. Download eBook