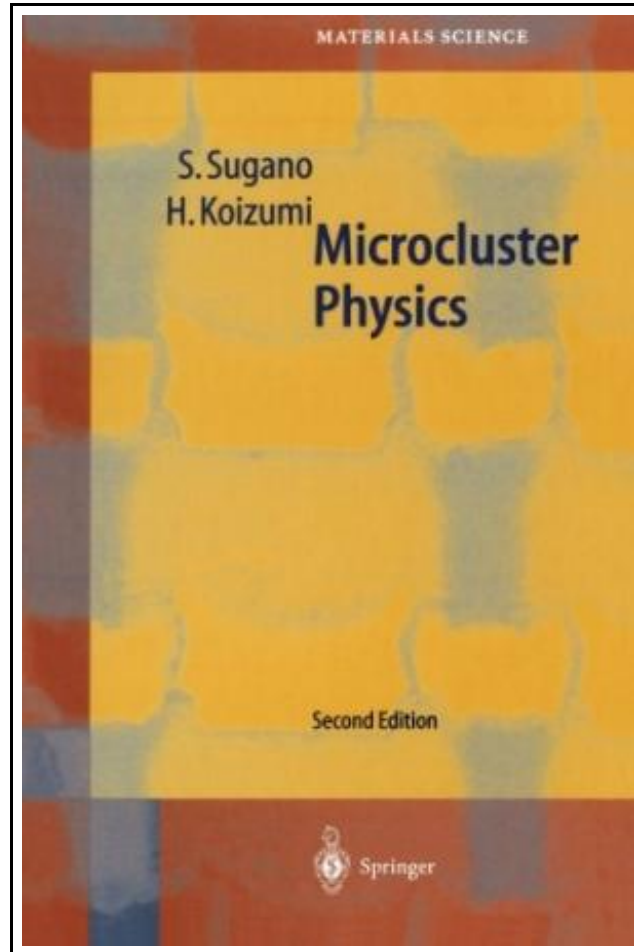


Microcluster Physics



Filesize: 5.44 MB

Reviews

This is actually the best ebook we have read till now. Indeed, it can be enjoy, nevertheless an interesting and amazing literature. You will not feel monotony at whenever you want of the time (that's what catalogs are for regarding should you question me).

(Jamar Stracke)

MICROCLUSTER PHYSICS

DOWNLOAD



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 optimisation 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 $N = 7\div 17$.- 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 Na $_N$ 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](#)

Other Kindle Books



Would It Kill You to Stop Doing That?

Book Condition: New. Publisher/Verlag: Little, Brown Book Group | A Modern Guide to Manners | A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford. | A few years...

[Download ePub »](#)



Violet Rose and the Surprise Party

Book Condition: New. Publisher/Verlag: Nosy Crow | With activities, 3D press-out models and over 175 stickers! Plus free games and printables online! | When busy rabbit, Violet Rose, discovers that her friend Lily has a...

[Download ePub »](#)



Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)

SAGE Publications Ltd. Paperback. Book Condition: new. BRAND NEW, Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition), Theresa Casey, 'Theresa's book is full of lots of inspiring, practical, 'how...

[Download ePub »](#)



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)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Download ePub »](#)



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)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Download ePub »](#)



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

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the

[Download Book »](#)



Peppa Pig: Sports Day - Read it Yourself with Ladybird: Level 2

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peppa Pig: Sports Day - Read it Yourself with Ladybird: Level 2, Peppa Pig is having fun with her friends at Sports Day, but she is

[Download Book »](#)



Superhero Max- Read it Yourself with Ladybird: Level 2

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Superhero Max- Read it Yourself with Ladybird: Level 2, Superhero Max - Max is an ordinary boy, but he is also Swooperman, a superhero! When the

[Download Book »](#)



The Three Little Pigs - Read it Yourself with Ladybird: Level 2 (Paperback)

Penguin Books Ltd, United Kingdom, 2013. Paperback. Book Condition: New. 222 x 150 mm. Language: English . Brand New Book. In this classic fairy tale, the three little pigs leave home and build their own

[Download Book »](#)



Slavonic Rhapsody in A-Flat Major, B.86.3: Study Score (Paperback)

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 297 x 210 mm. Language: English . Brand New Book ***** Print on Demand *****.Dvorak s final Slovanske rapsodie was composed from around September 20

[Download Book »](#)