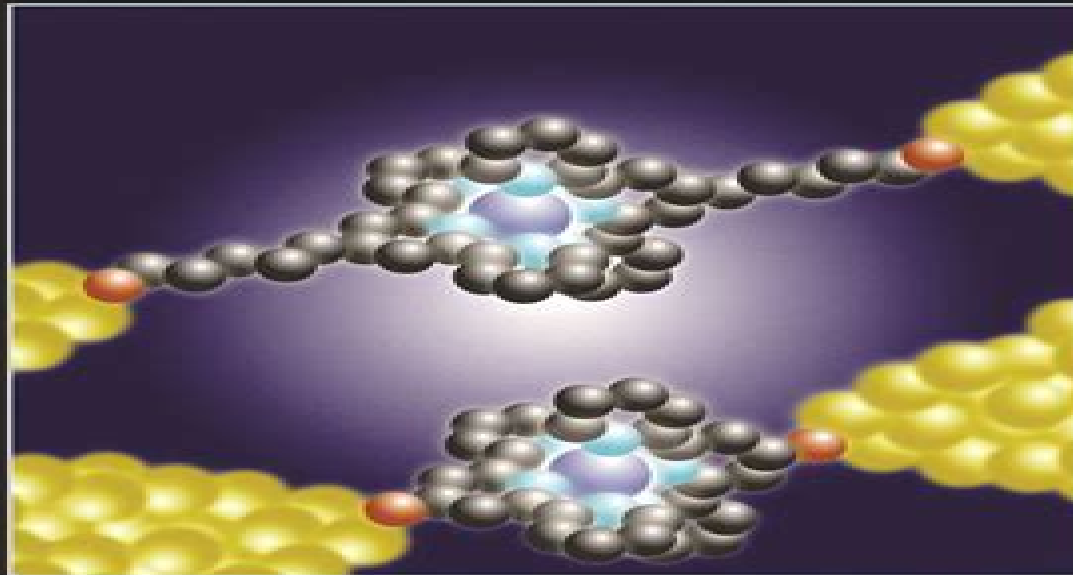


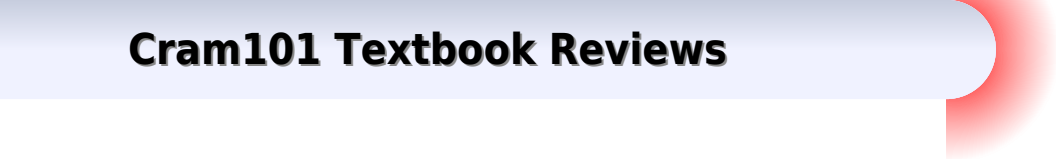
Condensed Matter in a Nutshell



Gerald D. Mahan

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magnetism and Green's function formalism for the second semester curriculum. Covers many advanced topics and recent developments in condensed matter physics which are not included in other texts and are hot areas: Spintronics, Heavy fermions, Metallic nanoclusters, ZnO, Graphene and graphene based electronic, Quantum hall effect, High temperature superconductivity, Nanotechnology. Offers a diverse number of Experimental techniques clearly simplified. Features end of chapter problems.

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Condensed Matter Theories Virulh Sa-yakanit, 2009. The Thirty First International Workshop on Condensed Matter Theories CMT31 held in Bangkok focused on the many roles played by ab initio theory modeling and high performance computing in condensed matter and materials science providing a forum for the discussion of recent advances and exploration of new problems. Fifty six invited papers were presented of which 38 appear as chapters in this volume. Reports of recent results generated lively debate on two dimensional electron systems, the metal insulator transition, dilute magnetic semiconductors, effects of disorder, magnetoresistance phenomena, ferromagnetic stripes, quantum Hall systems, strongly correlated Fermi systems, superconductivity, dilute fermionic and bosonic gases, nanostructured materials, plasma instabilities, quantum fluid mixtures and helium in reduced geometries.

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