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Computer Simulation Studies In Condensed

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data, which cover simulation of both classical and quantum systems.

Computer Simulation Studies in Condensed Matter Physics ...

This status report features the most recent developments in the field, spanning a wide range of topical areas in the computer simulation of condensed matter/materials physics. Both established and new topics are included, ranging from the statistical mechanics of classical magnetic spin models to electronic structure calculations, quantum simulations, and simulations of soft condensed matter.

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The fundamental role played by computer simulation studies in many areas of condensed matter physics is now well accepted. The “status report” on this topic contained in this volume is the ...

(PDF) Computer Simulation Studies in Condensed Matter ...

Computer simulation studies in condensed matter physics now play a fundamental role in many areas of investigation. The “status report” which is contained in this volume is the result of presentations and discussion that occurred during the 19th Annual Workshop at the Center for Simulational Physics.

Computer Simulation Studies in Condensed Matter Physics ...

Computer Simulation Studies in Condensed-Matter Physics X is devoted to Prof. Masuo Suzuki' s ideas, which have made novel, new simulations possible. These proceedings, of the 1997 workshop, comprise three parts that deal with new algorithms, methods of analysis, and conceptual developments.

Computer Simulation Studies in Condensed-Matter Physics X ...

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The fundamental role played by computer simulation studies in many areas of condensed matter physics is now well accepted. The “status report” on this topic contained in this volume is the ...

Computer Simulation Studies in Condensed-Matter Physics ...

Computer Simulation Studies in Condensed-Matter Physics XVII: Proceedings of the Seventeenth Workshop, Athens, GA, USA, February 16-20, 2004 (Springer Proceedings in Physics (103)) 2006th Edition by David P. Landau (Editor), Steven P. Lewis (Editor), Heinz-Bernd Schüttler (Editor) & ISBN-13: 978 ...

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As a consequence, the Center for Simulational Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics. This year's workshop was the fifteenth in this series, and the continued interest shown by the scientific community demonstrates quite clearly the useful purpose that these meetings have served.

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The group is a partner, with related activities at Imperial College and University College London, in the Thomas Young Centre for Theory and Simulation of Materials. Its research is supported by a number of computer clusters housed in a dedicated server room including a 480-processor HPC cluster.

Theory & Simulation of Condensed Matter

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Title:28th Workshop on Computer Simulation Studies in Condensed Matter Physics (CSP 2015)

Desc:Proceedings of a meeting held 19-21 February 2015, New Orleans, Louisiana, USA.

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COMPUTER SIMULATION STUDIES IN CONDENSED MATTER PHYSICS ...

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Computer simulation studies in condensed matter physics ...

The purpose of this chapter is to illustrate the basic principles underlying the current standard methods to accurately solve Eq. (1.3), which represents the main task for the ab initio calculations of the electronic structure in real poly-atomic systems. The different schemes to achieve this goal can be classified into two main categories: the wave function-based methods, traditionally known ...

Computer Simulations of Molecules and Condensed Matter ...

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Computer Simulation Studies in Condensed-Matter Physics V ...

A model potential-energy function comprising both two- and three-atom contributions is proposed to describe interactions in solid and liquid forms of Si. Implications of this potential are then explored by molecular-dynamics computer simulation, using 216 atoms with periodic boundary conditions. Starting with the diamond-structure crystal at low temperature, heating causes spontaneous ...

Computer simulation of local order in condensed phases of ...

(1988). A model for the computer simulation of chemical reactions in the condensed phase. Molecular Physics: Vol. 65, No. 5, pp. 1153-1169.

A model for the computer simulation of chemical reactions ...

This volume represents a "status report" emanating from presentations made during the 18th Annual Workshop on Computer Simulations Studies in Condensed Matter Physics at the Center for Simulational Physics at the University of Georgia in March 2005.

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