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This volume represents a "status report" emanating from presentations made during the 18 th Annual Workshop on Computer Simulations Studies in Condensed Matter Physics at the Center for Simulational Physics at the University of Georgia in March 2005. It provides a broad overview of the most recent advances in the field, spanning the range from statistical physics to soft condensed matter and biological systems.

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devoted to Prof. Masuo Suzuki's ideas, which have made novel, new  
simulations possible. These proceedings, of the 1997 workshop,

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comprise three parts that deal with new algorithms, methods of analysis, and conceptual developments.

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Computer Simulation Studies in Condensed-Matter Physics VI provides a broad overview of recent developments in this field. Based on the last workshop, it presents invited and contributed papers which describe new physical results, simulational techniques and ways of interpreting simulational data. Both classical and quantum systems are discussed.

A broad overview of recent developments in computer simulation studies of condensed matter systems is provided in this book. Both classical and quantum systems are discussed. The contributions present new physical results and describe new simulation techniques and novel ways of interpreting simulational data. Topics covered include: - parallelization and vectorization - cellular automata, fractals and aggregation - damage spreading - molecular dynamics of proteins and

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rotating molecules in solids - quantum Monte Carlo studies of strongly  
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The contribution of computer simulation studies to our understanding of the properties of a wide range of condensed matter systems is now well established. The Center for Simulational Physics of the University of Georgia has been hosting a series of annual workshops with the intent of bringing together experienced practitioners in the field, as well as relative newcomers, to provide a forum for the exchange of ideas and recent results. This year's workshop, the third in the series, was held February 12-16, 1990. These proceedings are a record of the workshop and are published with the goal of timely dissemination of the papers to a wider audience. The proceedings are divided into four parts. The first contains invited papers dealing with simulational

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studies of classical systems and also includes an introduction to some new simulation techniques. A separate section is devoted to invited papers on quantum systems, including new results for strongly correlated electron and quantum spin models believed to be important for the description of high-T<sub>c</sub> superconductors. The third part consists of a single invited paper, which presents a comprehensive treatment of issues associated with high performance computing, including differences in architectures and a discussion of access strategies. The contributed papers constitute the final part.

Computer simulation studies in condensed matter physics form a rapidly developing field making significant contributions to important physical problems. The papers in this volume present new physical results and report new simulation techniques and new ways of

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interpreting simulational data, which cover simulation of both classical and quantum systems. Topics treated include - Multigrid and nonlocal updating methods in Monte Carlo simulations - Simulations of magnetic excitations and phase transitions - Simulations of aggregate formation - Molecular dynamics and Monte Carlo studies of polymers, polymer mixtures, and fluid flow - Quantum path integral and molecular dynamics studies of clusters and adsorbed layers on surfaces - New methods for simulating interacting boson and fermion systems - Simulational studies of electronic structure.

More than a decade ago, because of the phenomenal growth in the power of computer simulations, The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching: The Center for Simulational Physics. As the simulations



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community expanded further, we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted extended discussion. 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 eleventh in this series, and the interest shown by the scientific community demonstrates quite clearly the useful purpose which the series has served. The latest workshop was held at The University of Georgia, February 23-27, 1998, and these proceedings provide a "status report" on a number of important topics. This volume is published with the goal of timely dissemination of the material to a wider audience. We wish to offer a special thanks to IBM Corporation for their generous support of this year's workshop. This

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volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics. We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms, methods of analysis, and conceptual developments. Athens, GA, U. S. A. D. P. Landau April 1998 H-B.

As the role of computer simulations began to increase in importance, we sensed a need for a "meeting place" for both experienced simulators and neophytes to discuss new techniques and results in an environment which promotes extended discussion. As a consequence of these concerns, 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 fifth in

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this series and the interest which the scientific community has shown demonstrates quite clearly the useful purpose which the series has served. The workshop was held at the University of Georgia, February 17-21, 1992, and these proceedings form a record of the workshop which is published with the goal of timely dissemination of the papers to a wider audience. The proceedings are divided into four parts. The first part contains invited papers which deal with simulational studies of classical systems and includes an introduction to some new simulation techniques and special purpose computers as well. A separate section of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models. The third section is comprised of a single, invited description of a newly developed software shell designed for running parallel programs. The contributed presentations comprise the

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Computer Simulation Studies in Condensed-Matter Physics VII provides a broad overview of recent developments. Presented at the recent workshop, it contains the invited and contributed papers which describe new physical results, simulational techniques and ways of interpreting simulational data. Both classical and quantum systems are discussed.

The contribution of computer simulation studies to our understanding of properties of a wide range of condensed-matter systems is now well established. The Center for Simulational Physics has been hosting annual workshops with the intent of bringing together some of the experienced practitioners in the field, as well as relative newcomers in

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the field, to provide a forum for the exchange of ideas and recent results. This year's workshop, the fourth in the series, was held at the University of Georgia, February 18-22, 1991. These proceedings are a record of the workshop and are published with the goal of timely dissemination of the papers to a wider audience. The proceedings are divided into three parts. The first part contains invited papers which deal with simulational studies of classical systems and includes an introduction to some new simulation techniques and special purpose computers as well. A separate section of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models believed to be important for the description of high- $T_c$  superconductors. The contributed presentations comprise the final chapter.

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Almost fifteen years ago, because of the phenomenal growth in the power of computer simulations, The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching: The Center for Simulational Physics. As the international simulations community expanded further, we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted extended discussion. As a consequence, the Center for Simulational Physics established an annual workshop on Re cent

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Developments in Computer Simulation Studies in Condensed Matter Physics. This year's workshop was the thirteenth in this series, and the continued interest shown by the scientific community demonstrates quite clearly the useful purpose that these meetings have served. The latest workshop was held at The University of Georgia, February 21-25, 2000, and these proceedings provide a "status report" on a number of important topics. This volume is published with the goal of timely dissemination of the material to a wider audience. We wish to offer a special thanks to the IBM Corporation for its generous support of this year's workshop. We also acknowledge the Donors of the Petroleum Research Fund, administered by the American Chemical Society, and the National Science Foundation for partial support. This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics.



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