Solid State Physics Simulations (Consortium for Upper Level Physics Software)

Ian D. Johnston, Graham Keeler, Roger Rollins, Steven Spicklemire

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Other CUPS Projects Astrophysics Simulations Classical Mechanics Simulations Electricity and Magnetism Simulations Modern Physics Simulations Nuclear and Particle Physics Simulations Quantum Mechanics Simulations Thermal and Statistical Physics Simulations Waves and Optics Simulations Solid State Physics Simulations is one volume in a series of nine book/software packages developed by the Consortium for Upper-Level Physics Software. CUPS is an international group of 27 physicists, all with extensive backgrounds in the research, teaching, and development of instructional software. The simulations included in this volume cover: Phonon Dispersion Curves, Density of States, and Specific Heat for 3-D Crystals; Wavefunctions in a Finite 1-D Lattice; Energy Bands, Gaps and Eigenstates in an Infinite 1-D Lattice; Motion of Electron Wave Packet in a 1-D Lattice; Wavefunctions in the LCAO Approximation; and Build your Own Solid State Devices. These simulations include complex, often realistic, calculations of models of various physical systems. If desired, the user may also vary many parameters of the system, and interact with it in other ways, so as to study its behavior in real time. Source code has been provided for users who wish to modify programs. All of the programs are written in Borland/Turbo Pascal for MS-DOS. Minimum hardware requirement is an IBM-compatible 386-level machine with mouse and VGA color monitor. The disk(s) included in this package are 3. 5???.

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