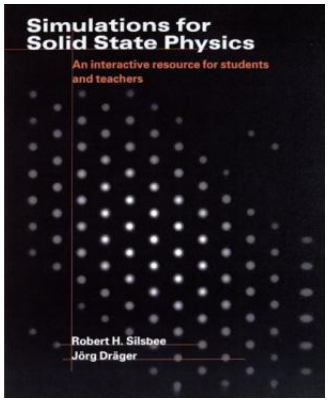

Simulations for Solid State Physics: An Interactive Resource for Students and Teachers

By Robert H. Silsbee

Cambridge University Press. Paperback. Condition: New. 368 pages. Dimensions: 9.3in. x 7.5in. x 0.8in.This new and exciting interactive resource package centers around fourteen high quality computer simulations covering essential topics in solid state physics. The computer simulations provided on CDSHROM cover x-ray diffraction, phonons, electron states and dynamics, semiconductors, magnetism, and dislocations. Users can vary different characteristics and immediately see the results in animations and graphical displays. The companion book is essential for effective use of the simulations. It guides the user through hundreds of exercises and examples, illustrates fundamental physical principles, and contains notes on the relevant physics. The hardcover edition includes the simulations on CDSHROM (Unix, Windows, Powermac formats) and a license for use on a local area network on a single geographical site. The low priced paperback (without CDSHROM) is intended for students who have access to the simulations on a local area network. These simulations provide an interactive resource for those studying solid state physics at advanced undergraduate or graduate level. They will also be of interest to researchers in physics, materials science, electrical engineering, chemistry and chemical engineering. Selected material from the simulations may be explored at the Web site http: www. ruph. cornell. edusssss....

Reviews

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