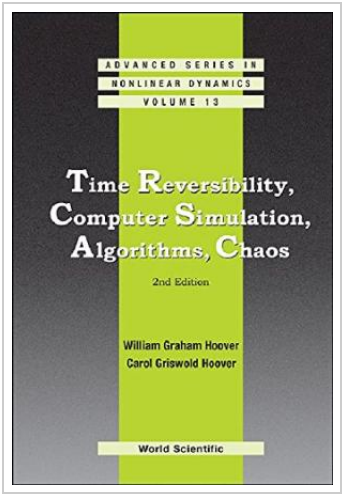

Time Reversibility, Computer Simulation, Algorithms, Chaos (2nd Revised edition)

By William G. Hoover, Carol G. Hoover

World Scientific Publishing Co Pte Ltd. Hardback. Book Condition: new. BRAND NEW, Time Reversibility, Computer Simulation, Algorithms, Chaos (2nd Revised edition), William G. Hoover, Carol G. Hoover, A small army of physicists, chemists, mathematicians, and engineers has joined forces to attack a classic problem, the "reversibility paradox", with modern tools. This book describes their work from the perspective of computer simulation, emphasizing the author's approach to the problem of understanding the compatibility, and even inevitability, of the irreversible second law of thermodynamics with an underlying time-reversible mechanics. Computer simulation has made it possible to probe reversibility from a variety of directions and "chaos theory" or "nonlinear dynamics" has supplied a useful vocabulary and a set of concepts, which allow a fuller explanation of irreversibility than that available to Boltzmann or to Green, Kubo and Onsager. Clear illustration of concepts is emphasized throughout, and reinforced with a glossary of technical terms from the specialized fields which have been combined here to focus on a common theme. The book begins with a discussion, contrasting the idealized reversibility of basic physics against the pragmatic irreversibility of real life. Computer models, and simulation, are next discussed and illustrated. Simulations provide the means to assimilate...

Reviews

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