



# Computer Simulation of Dynamic Phenomena (Scientific Computation)

*Mark L. Wilkins*

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**Computer Simulation of Dynamic Phenomena (Scientific Computation)** Mark L. Wilkins

A description of computer programs for simulating phenomena in hydrodynamics, gas dynamics, and elastic plastic flow in one, two, and three dimensions. The text covers Maxwell's equations, and thermal and radiation diffusion, while the numerical procedures described permit the exact conservation of physical properties in the solutions of the fundamental laws of mechanics. The author also treats materials, including the use of simulation programs to predict material behavior.



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