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Rubin H. Landau, PhD, is a professor in the Department of Physics at Oregon State University in Corvallis. He teaches courses in computational physics, helps direct the Northwest Alliance for Computational Science and Engineering, and has been using computers in theoretical physics research for the past 30 years.

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Computational Physics, 3rd Ed

Computational physics is the study and implementation of numerical analysis to solve problems in physics for which a quantitative theory already exists. Historically, computational physics was the first application of modern computers in science, and is now a subset of computational science.. It is sometimes regarded as a subdiscipline (or offshoot) of theoretical physics, but others consider ...

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2 Framework for Teaching Physics with Computation Figure 2 illustrates the scientific problem - solving paradigm that is at the core of computational research. Although such diagrams have been

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The use of computation and simulation has become an essential part of the scientific process. Being able to transform a theory into an algorithm requires significant theoretical insight, detailed physical and mathematical understanding, and a working level of competency in programming. This upper-division text provides an unusually broad survey of the topics of modern computational physics ...

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