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With the great progress in numerical methods and the speed of the modern personal computer, if you can formulate the correct physics equations, then you only need to program a few lines of code to get the answer. Where other books on computational physics dwell on the theory of problems, this book takes a detailed look at how to set up the equations and actually solve them on a PC.

Focusing on popular software packages like Mathematica, Maple and MatLab, the book offers undergraduate student a comprehensive treatment of the methodology used in programming solutions to equations in physics.