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I have been teaching to senior undergraduate students at Penn State University.

An Introduction to Numerical Computation by Wen Shen

This chapter discusses some of the fundamental ideas involved in numerical computations. The term “numerical computations” refers to the use of computers to solve problems involving real numbers. Many real numbers can be expressed by a finite string of digits.

An Introduction To Numerical Computation

This book serves as a set of lecture notes for a senior undergraduate level course on the introduction to numerical computation, which was developed through 4 semesters of teaching the course over 10 years. The book requires minimum background knowledge from the students, including only a three-semester of calculus, and a bit on

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