

Download Computational Methods For Physics

Inhalte der Vorlesung. Die Veranstaltung soll verschiedene computer-gestützte Berechnungsmethoden, Lösungsansätze und Möglichkeiten zur Implementierung physikalischer Prozesse in den Bereichen der Bauphysik und der im Bauwesen relevanten Werkstoffe übermitteln.

There is an increasing need for undergraduate students in physics to have a core set of computational tools. Most problems in physics benefit from numerical methods, and many of them resist analytical solution altogether.

Tutorium / Praktische Übungen. Georg Bergner wird vom 14.11. bis 16.11.2018 neben der Vorlesung ein Tutorium mit praktischen Übungen zur Implementierung von Monte-Carlo-Algorithmen für das Ising-Modell (in C++) halten.

Bücher (Fremdsprachig) Wählen Sie die Abteilung aus, in der Sie suchen möchten.

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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.

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