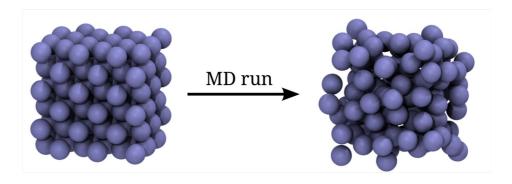


Aula 01 – Introdução ao Python



Prof. Elvis Soares

elvis@peq.coppe.ufrj.br

Infos

Horário de aulas: 3a, 09:00-12:00

Sala de Aula: <u>1224</u>

Calendário: 05/Ago - 09/Dez (~19 encontros)

Professores: Frederico Tavares (tavares@eq.ufrj.br)

Elvis Soares (elvis@peq.coppe.ufrj.br)

CRITÉRIOS DE AVALIAÇÃO

- 20% de Presença e Participação
- 40% de Listas de Exercícios (~10 listas)
- 40% de Projeto Final



https://github.com/elvissoares/EQE595-SimMol



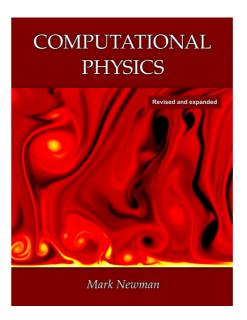
https://elvissoares.com/ensino

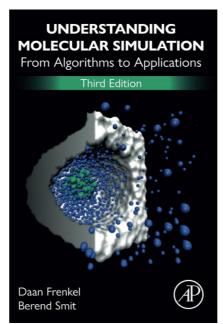
Ementa

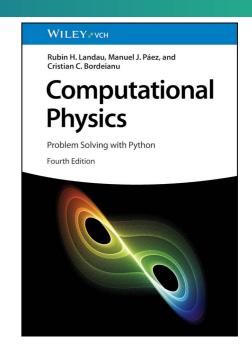
- 1)Introdução ao Python
- 2) Ensemble NVE e integrador de Verlet
- 3) Interação de Lennard-Jones
- 4) Distribuição de Maxwell-Boltzmann
- 5) Ensemble NVT e integrador de Langevin
- 6) Ensemble NPT
- 7) Água e Campos de Força
- 8) Soluto e Solvente
- 9) Integração Termodinâmica

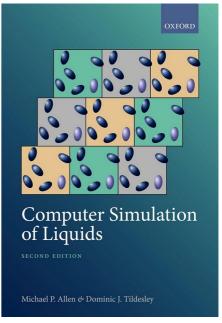
Referências

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 C. C. (2024). Computational physics: Problem solving with Python, 4th Edition.
 John Wiley & Sons.
- Frenkel, D., & Smit, B. (2023). **Understand** ing molecular simulation: from algorith ms to applications, 3rd Edition. Elsevier.
- Allen, M. P., & Tildesley, D. J. (2017). Com puter simulation of liquids, 2nd Edition. Oxford university press.









Ferramentas Computacionais





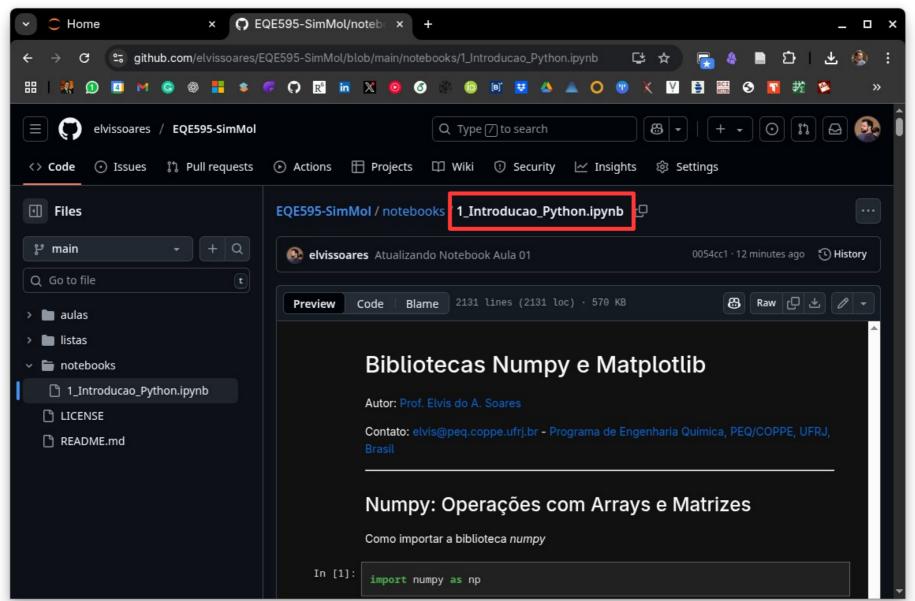


https://www.anaconda.com/download





Baixando o Notebook





https://www.anaconda.com/download

