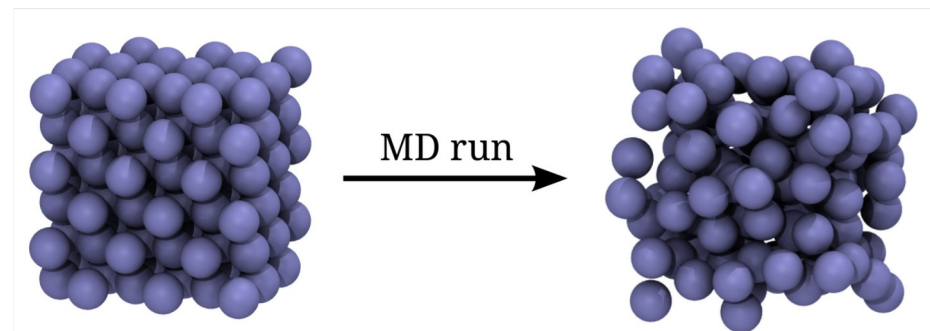


Aula 01 – Introdução ao Python



Prof. Elvis Soares
elvis@peq.coppe.ufrj.br

Infos

Horário de aulas: 3a, 09:00-12:00

Sala de Aula: I224

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

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

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



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



<https://elvissoares.com/ensino>

CRITÉRIOS DE AVALIAÇÃO

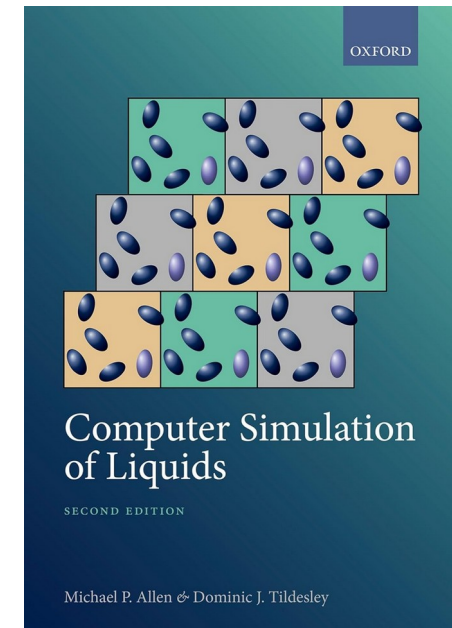
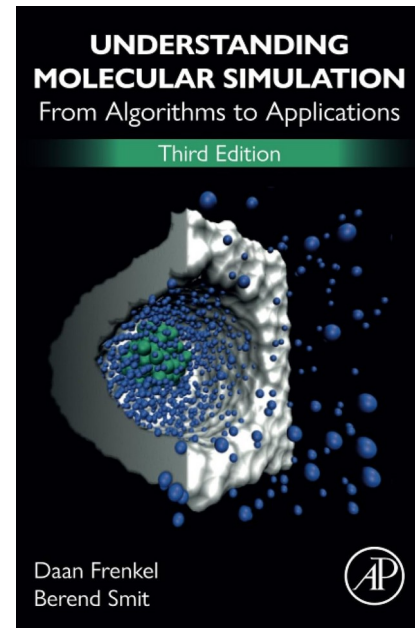
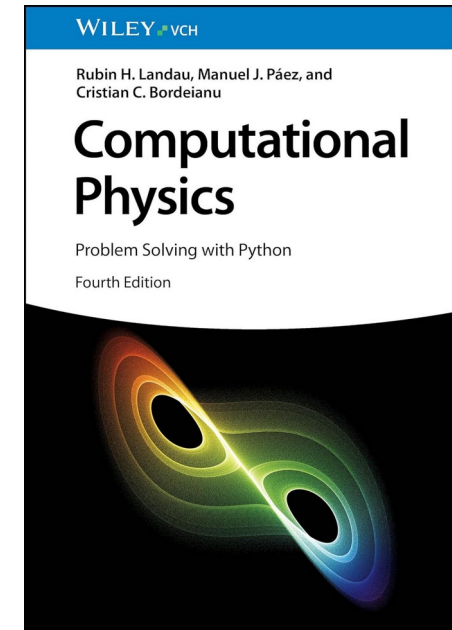
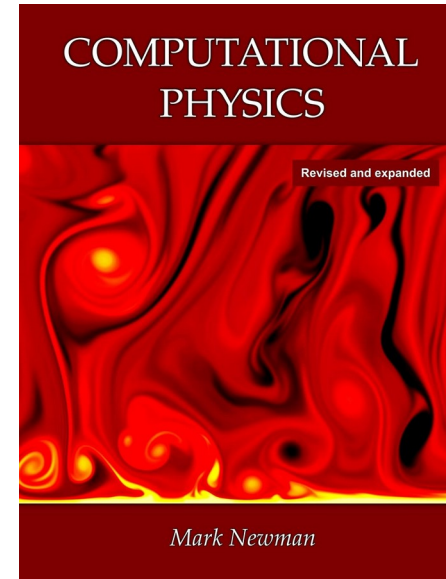
- 20% de Presença e Participação
- 40% de Listas de Exercícios (~10 listas)
- 40% de Projeto Final

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) Solute e Solvente
- 9) Integração Termodinâmica

Referências

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- Landau, R. H., Páez, M. J., & Bordeianu, C. C. (2024). **Computational physics: Problem solving with Python, 4th Edition**. John Wiley & Sons.
- Frenkel, D., & Smit, B. (2023). **Understanding molecular simulation: from algorithms to applications, 3rd Edition**. Elsevier.
- Allen, M. P., & Tildesley, D. J. (2017). **Computer simulation of liquids, 2nd Edition**. Oxford university press.



Ferramentas Computacionais



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