# [Quantum Chemistry. Hartree](https://quantum.mindhive.ro/2023/10/09/materiale-pentru-primul-curs-hopscotch-quantum-chemistry-hilbert-banach-space-of-n-e-9-octombrie-2023/)-Fock

**1. De ce teoria sau ecuația lui Schrödinger este exactă în timp ce teoria sau abordarea Hartree-Fock nu este exactă?**

**2. Care este sensul minimizării energiei Hartree-Fock?**

**3. Explicitați natura energiei uni-particulă din abordarea Hartree-Fock.**

**4. Comentați asupra rolului operatorului de proiecție în derivarea energiilor Hartree-Fock.**

**5. Comentați originea contribuției de schimb în energia Hartree-Fock.**

**6. Diferențiați între energia Hartree-Fock de tip încercare (trial) și energia Hartree-Fock orbital.**

## Referințe specifice răspunsurilor

1. Author 1, A.B.; Author 2, C.D. Title of the cited article. *Journal Title* **2007**, *6*, 100–110.
2. Author 1, A.B.; Author 2, C.D. Title of the article. *Abbreviated Journal Name*, Year, Volume, (Page range), DOI or other identification number. Available online: URL (accessed on Day Month Year).
3. Author 1, A.; Author 2, B. Title of the chapter. In *Book Title*, 2nd ed.; Editor 1, Editor 2, Eds.; Publisher: Publisher Location, Country, 2012; Volume 13, pp. 166–196.
4. Author 1, A.; Author 2, B. *Book Title*, 3rd ed.; Publisher: Publisher Location, Country, 2000; pp. 155–177.
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