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3 The Hartree-Fock Approximation

- 3.1 The Hartree-Fock Equations
- 3.1.1 The Coulomb and Exchange Operators
- 3.1.2 The Fock Operator
- Ex 3.1

$$\left\langle \chi_{i} \left| \hat{f} \left| \chi_{j} \right\rangle = \chi_{i} \left| \sum_{a} h(a) + \sum_{a} \sum_{b \neq a} \left[\mathcal{J}_{b}(a) - \mathcal{K}_{b}(a) \right] \right| \chi_{j}$$

$$= \tag{3.1.1}$$