Course Title

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Due Date

1 Problem

1.a Part A

$$h^{A_f O_f}_{A_t O_t} \rightarrow A_f = \text{Atom From } A_t = \text{Atom to}$$
$$O_f = \text{Orbital From } O_t = \text{Orbital To}$$

$$H = \begin{pmatrix} h^{1,1}_{1,1} & h^{1,1}_{1,2} & h^{1,1}_{1,3} & \dots & h^{1,1}_{2,1} & h^{1,1}_{2,2} & \cdots \\ h^{1,2}_{1,1} & h^{1,2}_{1,2} & h^{1,2}_{1,3} & \cdots & h^{1,2}_{2,1} & h^{1,2}_{2,2} & \cdots \\ \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \\ h^{1,11}_{1,1} & h^{1,11}_{1,2} & \cdots & & \ddots & & \\ h^{2,1}_{1,1} & h^{2,1}_{1,2} & \cdots & & & \ddots & \\ \vdots & \vdots & \vdots & & & & \end{pmatrix}$$