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electrostatic energy for equilibrium separation distance between atoms
$$U_{\text{coul}} = \frac{k_e q_1 q_2}{r}$$
 energy change associated with ionic bonding
$$U_{\text{form}} = \frac{U_{\text{coul}}}{N}$$
 e transfer
$$U_{\text{coul}} = \frac{U_{\text{ex}}}{N}$$
 critical magnetic field of a superconductor

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the goal of condensed matter theory is to understand the rich phenomena that emerge from relatively simple constituents electrons and nuclei and rules nonrelativistic quantum mechanics statistical mechanics and maxwell s equations

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