10.675 LECTURE 24

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1. Today

Surface Phase Diagram V,W interaction parameters E(p) where p=1 is occupied, p=0 is unoccupied $E(p) = V_o + \sum w_i p_i + \sum w_{ij} p_i p_j + \sum_{ijk} p_i p_j p_k$ Where the w terms are the energetics between the set occupancies. MC simulators to get convergence with NN energetic interactions. NEB - Nudged Elastic Band Change electronic Structure \rightarrow alloys \rightarrow strains \rightarrow additives \rightarrow steps Weighted D-band analysis

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