Surface Interaction

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Algorithm 1 Surface Interaction

procedure INTERACTIONS(lattice site,atom,n,E)
    for each atom make a list of its neighbors
    [(n=0|cental atom each time, type(0)),
    (n=1|1st neighbor, type(1)),
    .....
    (n=5|5th neighbor, type(5))] where type is 1 or 2 depends by the number of species we have.
    if type(0) = type(1:5) **then**
        $E = V1$: interaction $V_{central-atom,j}$
    else
        $E = V2$: interaction $V_{central-atom,j}$