

differential capacitance

Differential capacitance (per unit area of interphase or electrode; SI unit Fm^{-2}) is given by $C = (\partial Q / \partial E)_{T, p, \mu_i} \dots$ where E is the potential of the electrode with respect to a *reference electrode*, μ_i is a set of *chemical potentials* which are held constant, T is the thermodynamic temperature, Q is the electric charge (per unit area of interphase or electrode), and p is the pressure.

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