interfacial concentration (in electrochemistry), c

The interfacial concentration $c_{B,e}$ (or simply c_e) of a species B is the concentration of that species at the boundary of the *electrical double-layer* facing the solution, i.e. just outside the region where the departures from the electroneutrality of the solution are significant. This concept is mainly used in the usual case where the thickness of the electric double layer is very small as compared to that of the *diffusion layer*. It is often calculated from theory or derived from measurements of the *limiting current*.

See *mass transfer coefficient (in electrochemistry)*.

1981, *53*, 1837; see also 1980, *52*, 236