

### **concentration overpotential**

The concentration overpotential of an *electrode reaction* at a given *electrode current density* (c.d.) is basically the difference in equilibrium potentials across the *diffusion layer*. More precisely, it is the potential of a *reference electrode* (of the same electrode reaction as the *working electrode*) with the interfacial concentrations which establish themselves at c.d., relative to the potential of a similar reference electrode with the concentrations of the bulk solution. From such a measured potential difference, with c.d. flowing, one needs to subtract the ohmic potential drop prevailing between the two electrodes.

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