

## real potential of a species in a phase

Defined for species B in phase  $\beta$  as

$$\alpha_B^\beta = \mu_B^\beta - z_B F \psi^\beta$$

where  $\mu_B^\beta$  is the electrochemical potential of species B in phase  $\beta$ ,  $z_B$  is the charge number of species B,  $F$  is the Faraday constant, and  $\psi^\beta$  is the outer electric potential of phase  $\beta$ . Since  $\psi^\beta$  is zero when the charge on the phase  $\beta$  is zero, the real potential may be regarded as the value of the electrochemical potential of the uncharged phase.

**Source:**

PAC, 1974, 37, 499 (*Electrochemical nomenclature*) on page 506