

## average current density

**Also contains definition of:** local current density

The average current density,  $j$ , is defined by

$$j = A^{-1} \int_A j_x dA$$

where  $A$  is the electrode area,  $j_x$  is the local current density and  $dA$  is an infinitesimal surface element.

**Source:**

PAC, 1981, 53, 1827 (*Nomenclature for transport phenomena in electrolytic systems*)  
on page 1836