

**electron density**

If  $P(x,y,z) dx dy dz$  is the probability of finding an electron in the volume element  $dx dy dz$  at the point of a molecular entity with coordinates  $x,y,z$ , then  $P(x,y,z)$  is the electron density at this point. For many purposes (e.g. X-ray scattering, forces on atoms) the system behaves exactly as if the electrons were spread out into a continuously distributed charge. The term has frequently been wrongly applied to negative *charge population*.

See also *charge density*.

1994, 66, 1110