

32. Mechanism Of Plasma Formation In DC Glow Discharge By Using Solid Liquid Interface

K. P. Kadam

ABSTRACT

Spectral study of the glow discharge of the material helps in study of the chemical composition of the material. Under this spectrochemical study the elements in the material excited in the plasma produced between solid and liquid interface. The plasma parameters in DC glow discharge generated by current source. The used method is very low cost and quick results obtained. A variation of electrolytic current with the applied dc voltage during glow discharge in atmospheric pressure gas using electrolytic solution as the anode and cathode were carried out. This behavior investigated as the tunneling phenomenon.

Keywords: Glow discharge , Solid and liquid interface, tunneling, Plasma parameters.