

Uses of schottky effect

The schottky effect which involves the increase in electron emission from a heated material's surface due to an applied electric field —

1) Vacuum tubes — The schottky effect is utilized in vacuum tubes to enhance electron ~~emission~~ emission. By ~~applying~~ applying field, the work function of the cathode material is reduced, allowing for more efficient electron flow. This is crucial in devices like cathode ray tubes and other electron tube ~~etc~~ where controlled electron emission is necessary.

2) Field emission displays → The effect is also used in field emission displays. Where it help in achieving efficient electron emission from the cathode, contribution to the display's brightness and efficiency.