

08.33.40 Hlutjónað rafgas

Dæmablað 5

Skilafrestur 9. október 2007 kl. 14:00

1. Ambipolar Diffusion Coefficient

(10) Dæmi 5.2 í Lieberman og Lichtenberg

2. Density at Sheath Edge

(10) Dæmi 5.7 í Lieberman og Lichtenberg

3. Ion Transit Time for Child Law Sheath

(10) Show that the time for an ion with zero initial energy to transit a collisionless Child law sheath having voltage V_0 and thickness s is $t = 3s/v_0$ where $v_0 = (2eV_0/M)^{1/2}$.