

$$a = 25 \text{ nm} = 2.5 \times 10^{-3} \text{ m}$$

$$D = 1 \text{ m}$$

$$\frac{\lambda D}{2a} = 0.275 \times 10^{-3} \text{ m}$$

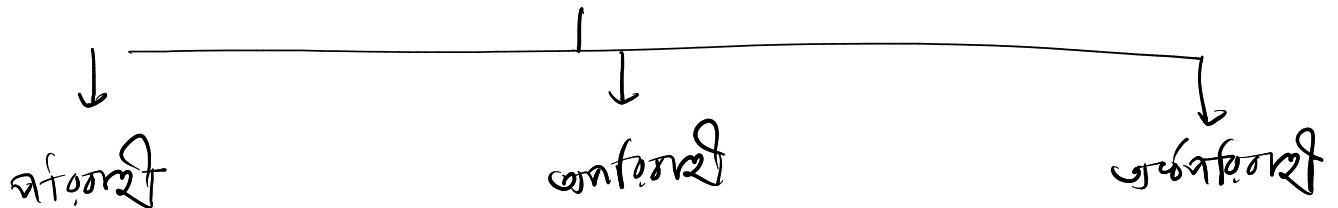
$$\frac{\lambda D}{2a} = 0.275 \times 10^{-3}$$

$$\lambda = \frac{0.275 \times 10^{-3} \times 2 \times 2.5 \times 10^{-3}}{1 \text{ m}}$$

=

ସେମିକଣ୍ଡକ୍ଟର ଉପକରଣ

ସଂକ୍ଷିପ୍ତ —

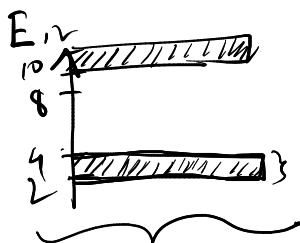


→ ଯେ ସଂକ୍ଷିପ୍ତ ଉପକରଣ
ଉପକରଣ ଉପକରଣ
ଉପକରଣ: Fe, Na, Mg, Cu

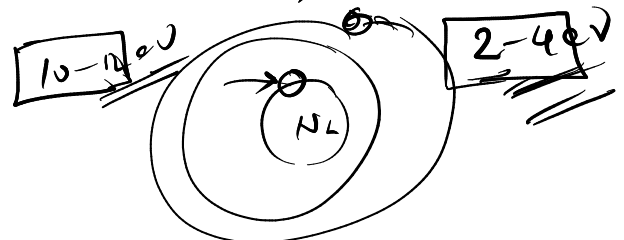
→ ଉପକରଣ ଉପକରଣ
ଉପକରଣ ଉପକରଣ
ଉପକରଣ: P, e, n

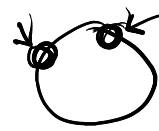
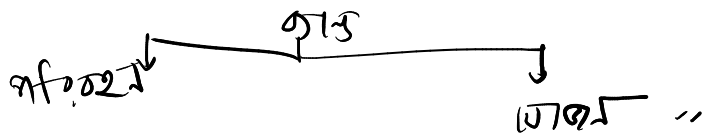
→ ଉପକରଣ ଉପକରଣ
ଉପକରଣ ଉପକରଣ
ଉପକରଣ: Si, Ge

ସଂକ୍ଷିପ୍ତ ଉପକରଣ:



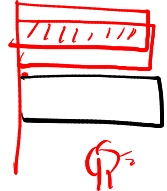
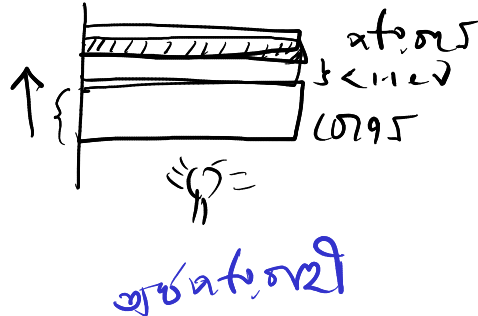
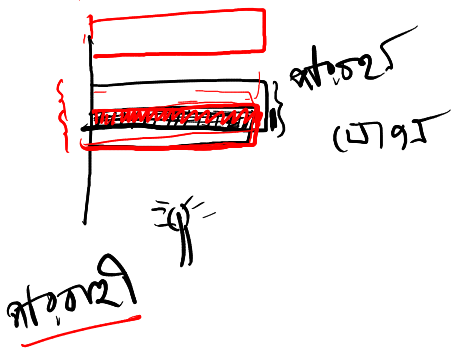
ସଂକ୍ଷିପ୍ତ: e ଓ ନାମ୍ନାତ୍ମ ସଂକ୍ଷିପ୍ତ ଉପକରଣ, ଉପକରଣ ଉପକରଣ





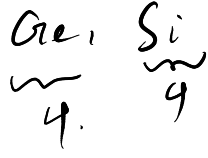
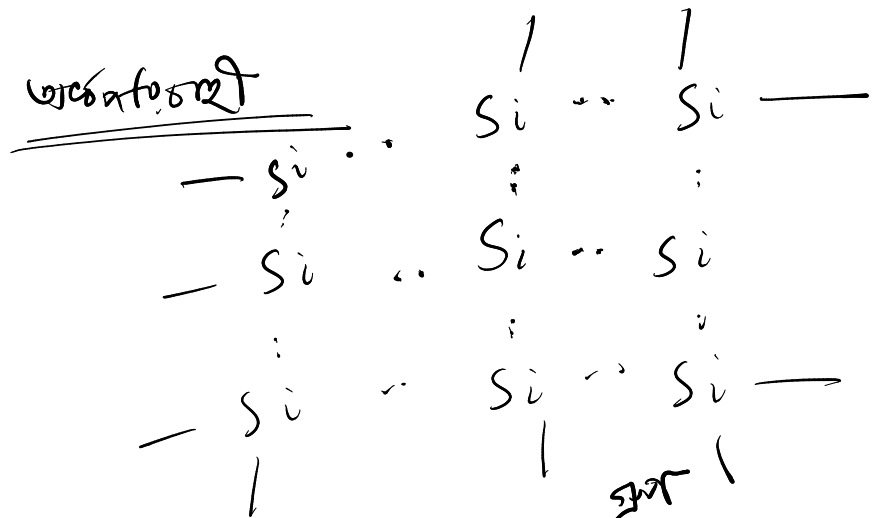
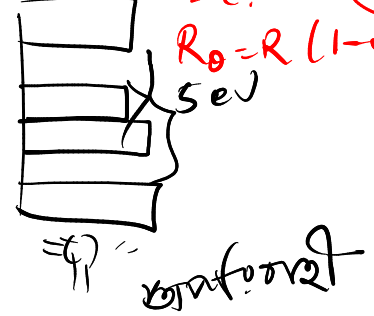
→ ଭାଲ ଭୋଲ ୧
 ଅବେଶ ୧୦ ୧୦ ୧୦
 ମତେ ଉପାଦାନ ।

→ ବାହ୍ୟ ଅବେଶ ୧ ଗ୍ରା ରହିବ
 ଆସୁ ।



→ ଭାଲ ଭୋଲ
 → ଅବେଶର ମତ ✓
 → ବାହ୍ୟ ମତ ✓
 $R_0 = R_0(1 + \alpha \theta)$

ଭାଲ ଭୋଲ
 → ଅବେଶର ମତ
 → ବାହ୍ୟ ମତ
 $R_0 = R_0(1 - \alpha \theta)$



ଡୋପିଂ
 Doping :-

$n^+ + e^-$
 $n^+ + e^-$

