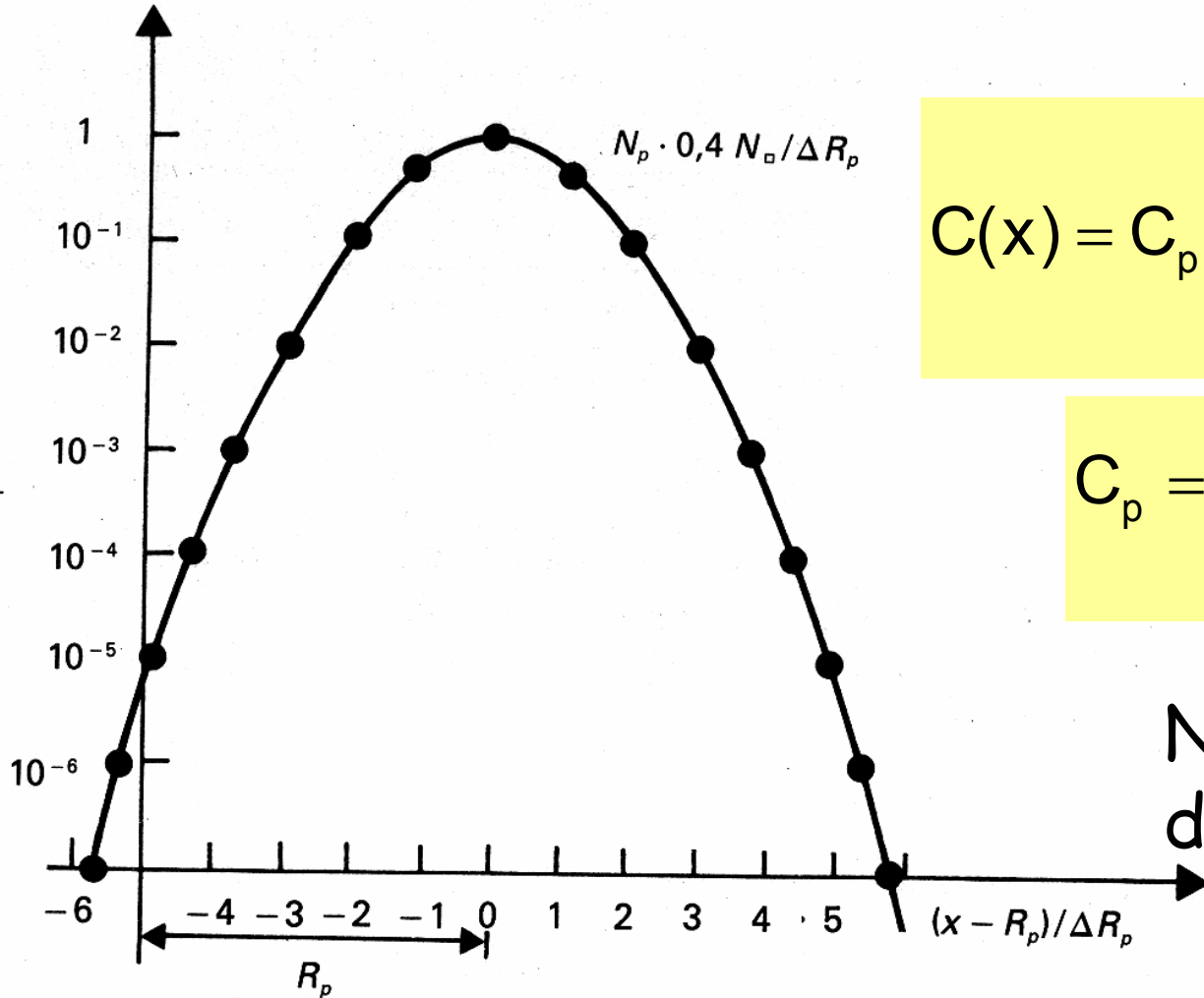


Profilo di drogaggio impiantato (teorico)



$$C(x) = C_p \cdot \exp\left(-\frac{(x - R_p)^2}{2 \cdot \Delta R_p^2}\right)$$

$$C_p = -\frac{N'}{\sqrt{\pi} (\sqrt{2} \cdot \Delta R_p)}$$

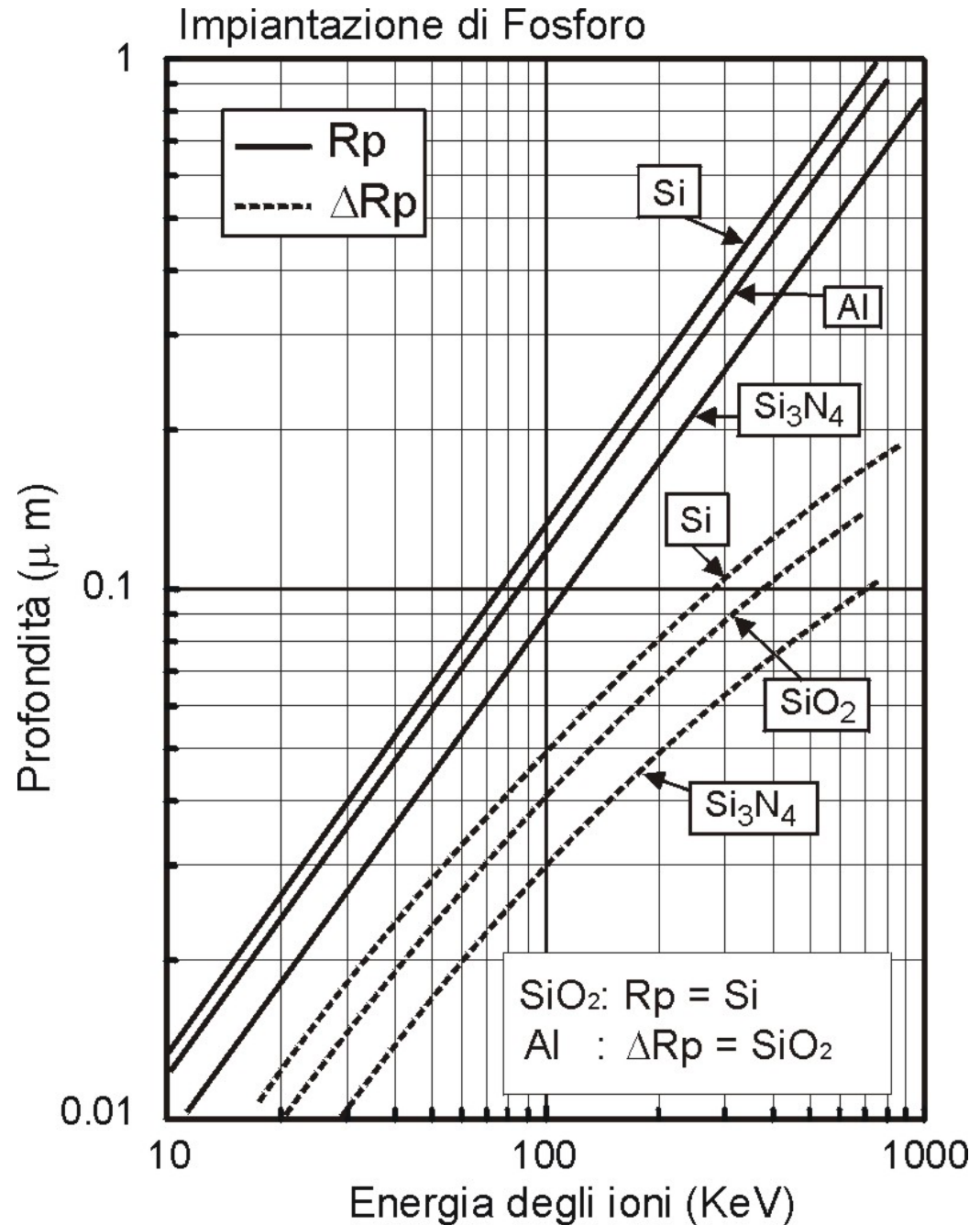
N' (o Q) =
dose impiantata

C_p = picco di concentrazione

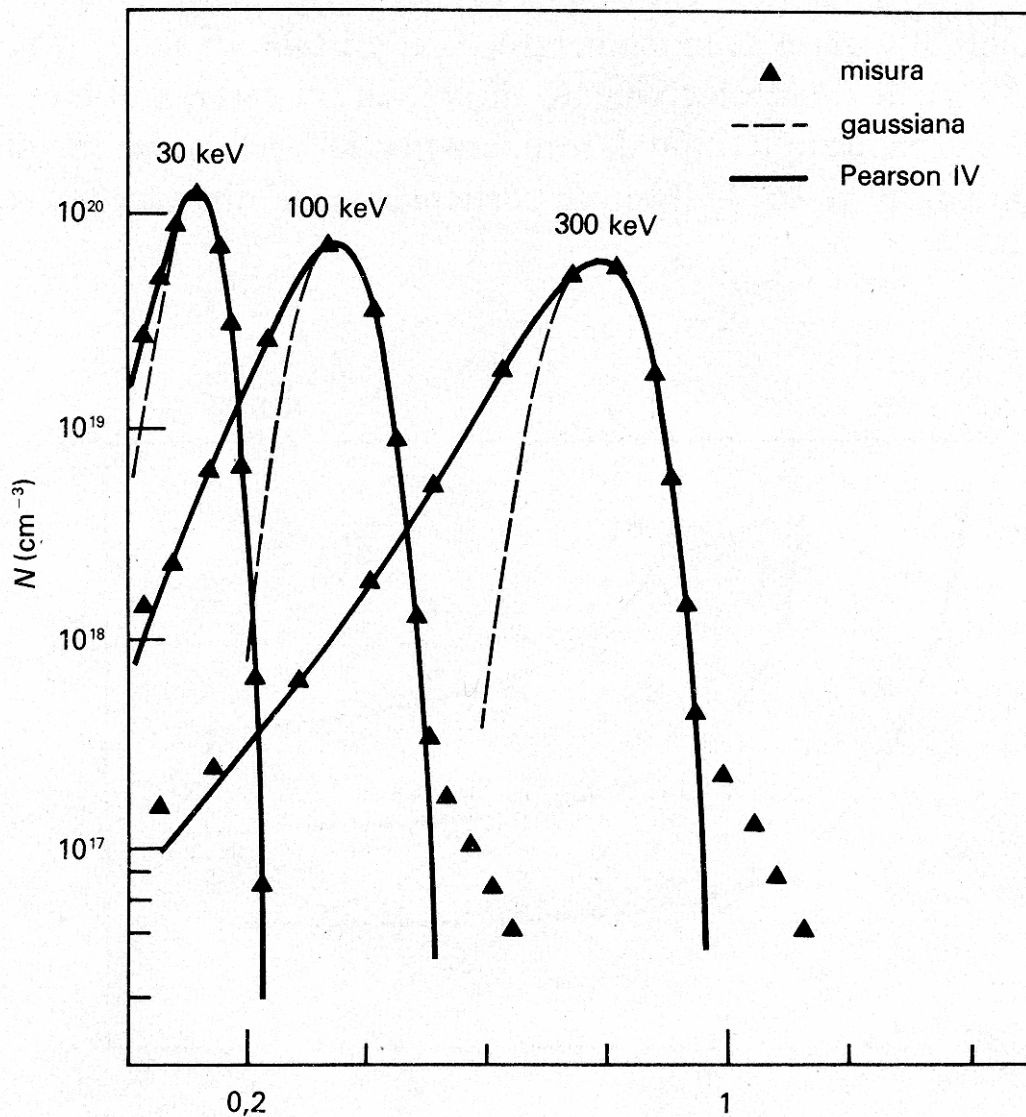
$L = \sqrt{2} \cdot \Delta R_p$ Lunghezza caratteristica (allargamento)

Projected range R_p and standard deviation ΔR_p vs energy

vedi libro per As e B.



Profili delle impurezze impiantate (teorici e reali) vs. energia



Profilo dopo la fase di annealing:

$$L' = \sqrt{2\Delta R_p^2 + 4Dt}$$

$$C(x) = \frac{N'}{L'\sqrt{\pi}} \exp\left[-\left(\frac{x - R_p}{L'}\right)^2\right]$$

