Silica

↳ worked on by Endy Grove → intel

↳ very abundant but we have to get rid of the impurities.

Initial Assumptions + USE engineering units

$$T_k = T + 273.15\,^{\circ}C$$

$$3\,ft^3 \times \left(\frac{12\ inch}{1\ ft}\right)^3 \times \left(\frac{2.54\ cm}{1\ inch}\right)^3$$

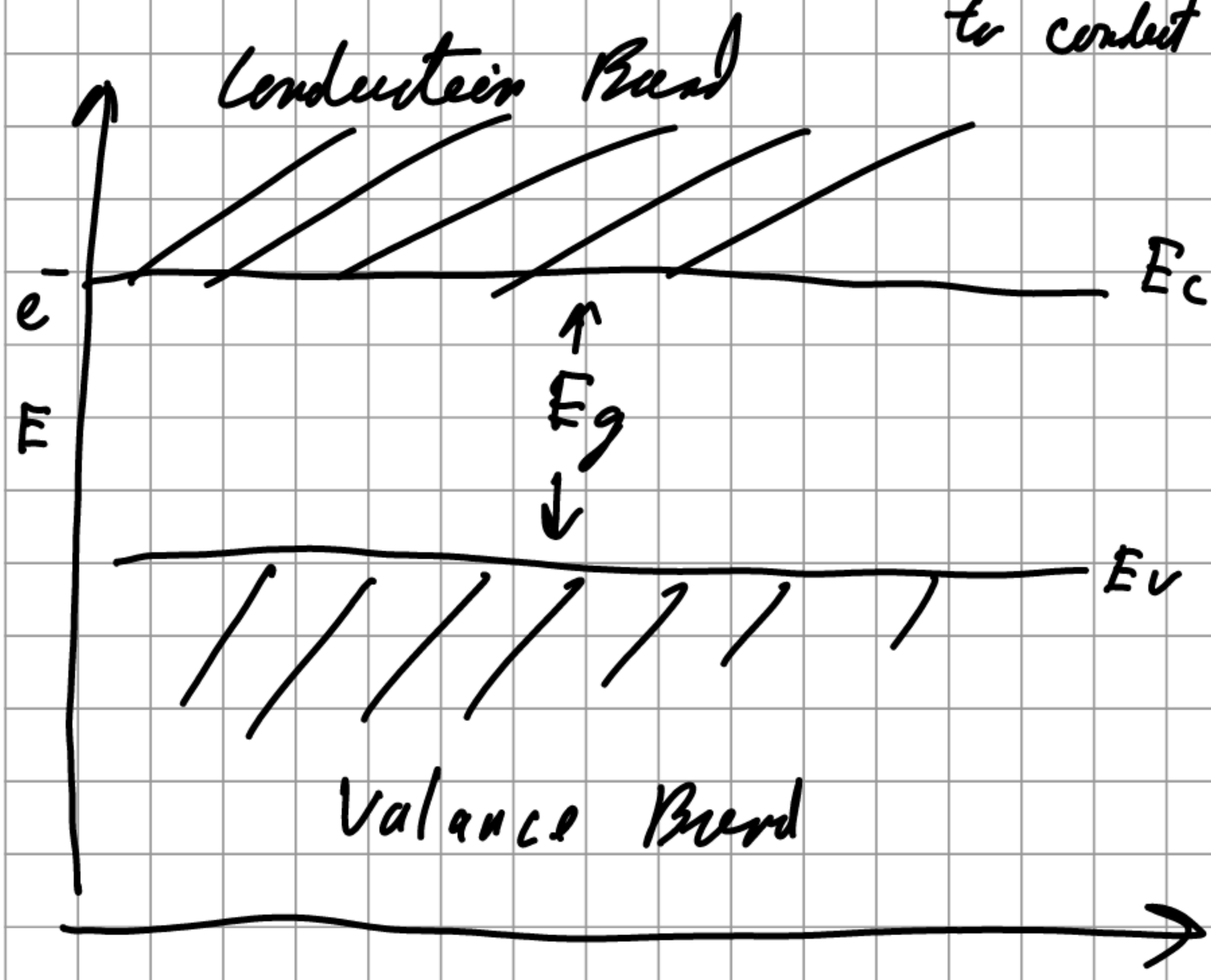
cancel!! cancel!!

Intro

- Energy Band Structure → to understand how electrons "flg" off

→ simplified 1D

→ energy it takes to go to conduct band



Electron Affinity → q

Regions in Energy Band

- Valance Band
- Conduction Band
- Band Gap

We use SiH_4 → pyrophoric silane
↳ combustible