## 1 | Silicon

- · Integrated circuits changed computer circutries
- · Circuts's sillicon purified as polycillion chunks
  - · The cubic seed will form a new cubic sillicon
  - · Impurities added to sillicon to cause it to conduct
  - Negative charged free carrier (asinic) => n type
  - Positive charged carrier (boron) => p type
- · Christle ground to form ingots
- · Then, sliced thin as wafers
- · Wafers are then ground thin + removed of surface contaminates
- · Then, wafers are checked for resistivity
- CMOS
  - · n-type transitior sandwich a p type region
  - A charge on the gate wolud cause the charge to go through
  - · Vise, versa
- · Meaning, when the P-N circut combinations are on, the N-P combination is off
- High temperature used to grow sillicon dioxide to protect the sillicon

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