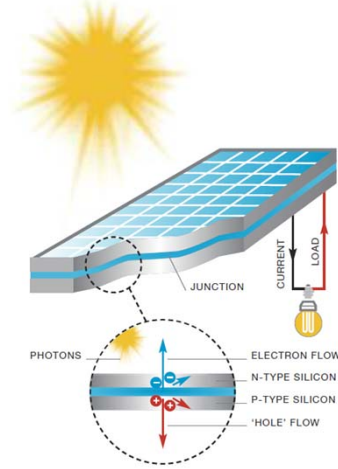
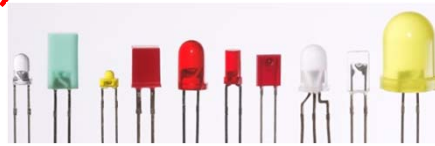
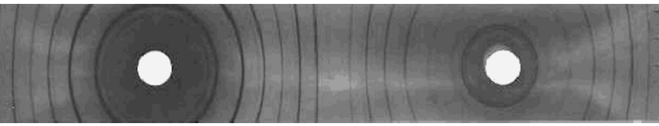
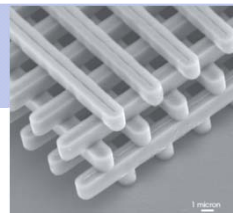
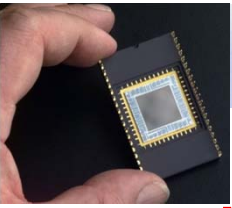


Lecture Announcement

Semiconductor Materials: Characterization, Processes & Devices



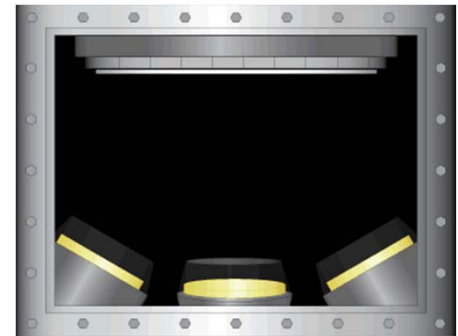
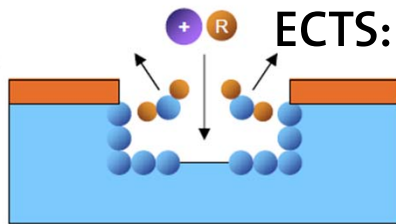
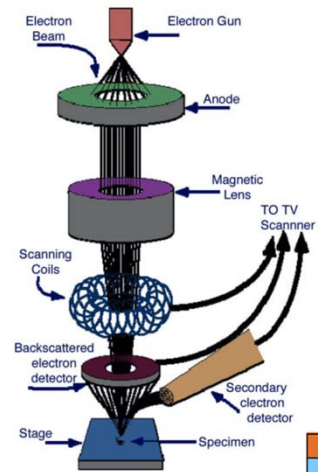
Dr. Silke Schön (FIRST)

Prof. Dr. Werner Wegscheider (D-PHYS)

Tuesdays, 1 – 3 pm, HCI J8

For master students & PhD students

ECTS: 6 credit points



Contents:

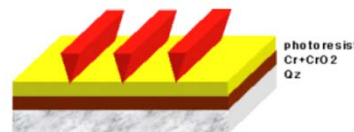
- Semiconductor material characterization (ex situ)
 - Structural and chemical methods
 - Electronic methods
 - Optical methods
- Semiconductor processing
 - E-beam lithography
 - Optical lithography
 - Structuring of layers and devices
 - Thin film deposition
- Semiconductor devices
 - Bipolar and field effect transistors
 - Semiconductor lasers
 - Other devices



Quartz substrate
Cr/CrO₂ layer (sputtering)
PR coating



Development and etching



Pattern writing by E-beam lithography



PR removal

