9th week seminiar

1.Registration of light based on the thermal resistance effect. Vacuum bolometer based on thin metal films. Bolometer based on thin semiconductor films. Spectral and energy characteristics, detecting ability.

2.Semiconductor photodiode on the pn junction. Depth pn junction, depth distribution of photogenerated carriers.

3. High-speed p-i-n photo detectors. The effect of carrier mobility and external stress on speed.

4. CCD line of photo detectors. Monochrome and multichromic detection. Spectral characteristics.