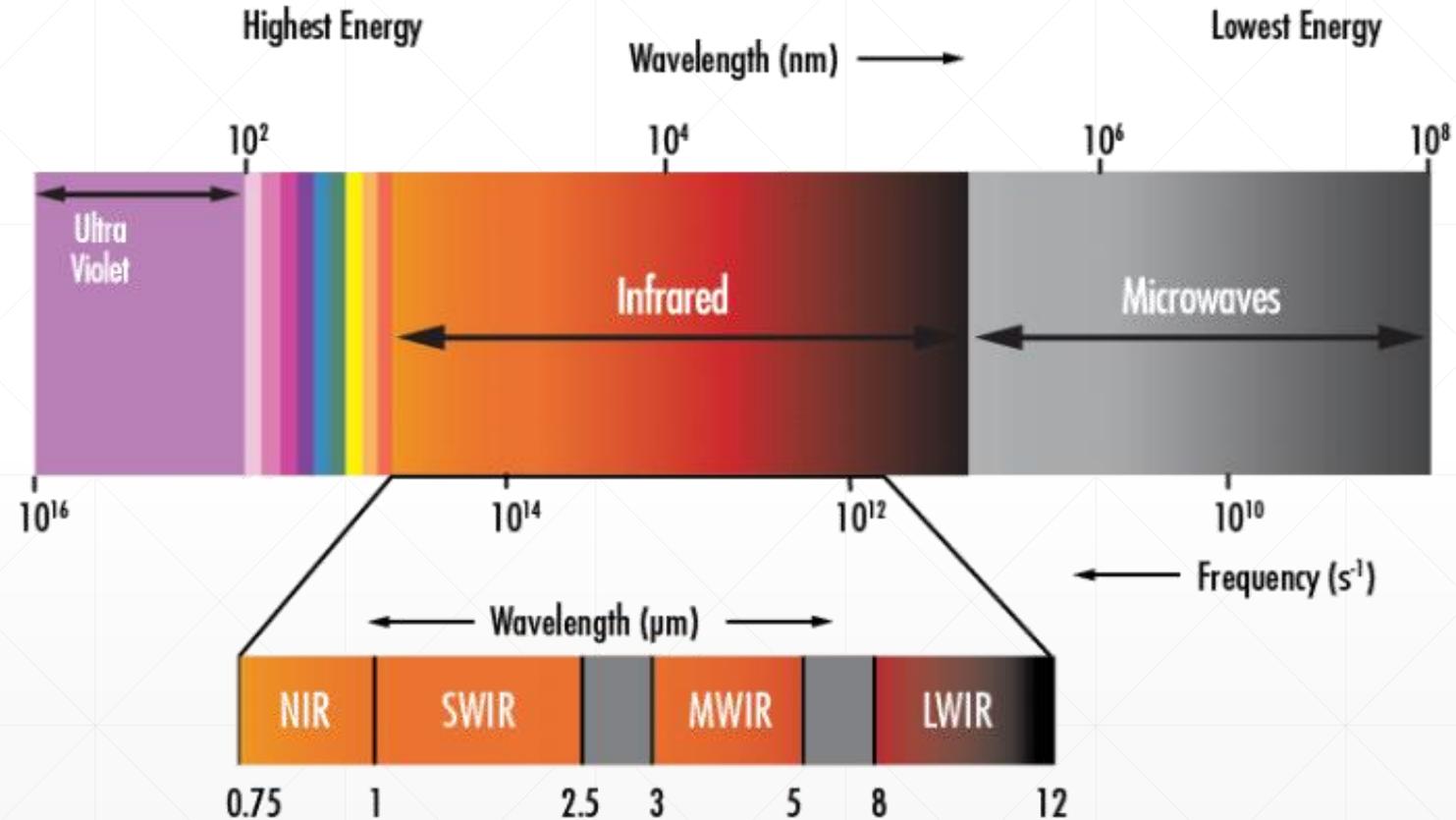


Testing with Infrared Imaging



<https://www.edmundoptics.com/knowledge-center/application-notes/imaging/what-is-swir/>

Testing with Infrared Imaging

Different wavelengths & some applications

- Near-infrared (NIR): 0.75-1 μm , quality of agriculture products (i.e. grains, coffee, spices, fruit, eggs, etc.)
- Short-wave infrared (SWIR): 1-2.7 μm , moisture detection
- Mid-wave infrared (MWIR): 3-5 μm , thermal imaging, better contrast than LWIR
- Long-wave infrared (LWIR): 8-14 μm , thermal imaging, better for smoke and aerosols

Testing with Infrared Imaging

Thermal Imaging Applications for the semiconductor industry

https://www.youtube.com/watch?v=s_CuigjsJyM&ab_channel=infraredinc

Lab Assignment # 5 - Testing

- Question 1: What range of IR is used by the QFI?
- Question 2: Thermal imaging is used commonly by industry to determine locations of circuit board failure. (True/False)
- Question 3: Will silicon be opaque or transparent on the QFI imaging system?