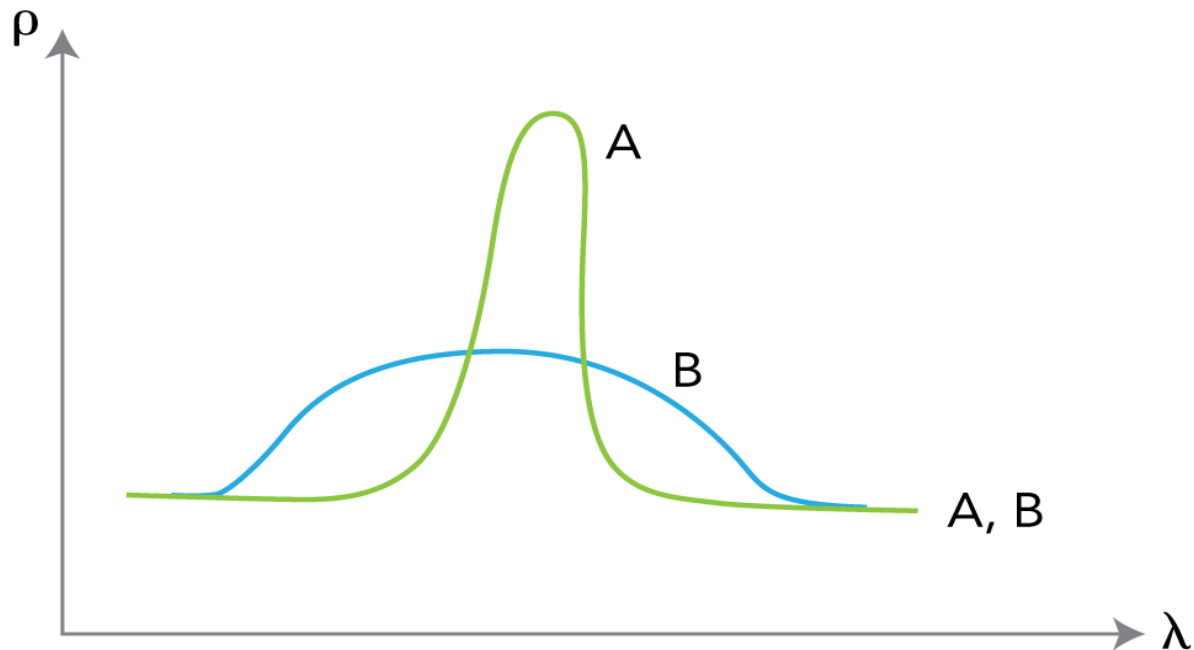


SUGGESTED SOLUTIONS (ODD)

CHAPTER 18

NOTE: Use three-digit precision for all calculations unless otherwise stated or implied.

18-2. Shown below are two spectra.



Without specific thresholds, and based solely on the spectra sketched as shown,

- A. Which spectra comparison approach(es) (spectral angle, spectral distance, spectral feature location) will probably give a result that the two spectra are the same? WHY?
- B. Which spectra comparison approach(es) (spectral angle, spectral distance, spectral feature location) might give a result that the two spectra are different? WHY?

SUGGESTED SOLUTION:

- A) Spectral feature locator. Both spectra have peaks located at nearly the same λ .
- B) Both spectral angle and spectral distance. The two spectra do not have the same shape, so there are large differences in the various bands.