

Chemistry 620

Analytical Spectroscopy

Study Questions

A good summary of a paper will address the following issues:

1. What is the purpose of the work described in the paper?
2. Summarize the approach the authors take to achieve their objectives.
3. Describe the light-matter interactions that form the basis for the measurement. (What happens to the analyte molecules during the measurement? What are the theoretical principles underlying the method? List the measurement parameters that are important for characterizing or predicting the quality the measurement.)
4. Briefly, describe the instrumentation the authors used to make the measurement(s) they describe. (What instrument components are required to produce and monitor the response? How do these components work? How are the components arranged? How does the component layout affect the response?)
5. Summarize the principal findings described in the paper. (Describe the chemical information embedded in the measurements)
6. What conclusions do the authors draw from these results?
7. Are the conclusions supported well by the data?
8. What are the alternative methods for making the measurement described? What are the pros & cons of this approach to making the measurement compared to the pros & cons of the alternatives?
9. List the references you used to answer questions 1 – 8.