Analytical instrumentation reflection

Chapter 1: Gives the basic idea about what analytical instrumentation is all about. This chapter discusses more on the basic analysis category, type of reaction and basic terms needed for analytical discussion.

Chapter 2: Get too numerical where significant figures concept is stressed. This chapter is about interpreting data such as errors, standard deviation, mean, median, etc. This chapter emphasizes on the importance of accurate measurement of data.

Chapter 3: Studies of precipitation. The properties, steps taken to produce pure, impurities in precipitate and calculation regarding it.

Chapter 4: Introduce basic idea of spectrochemical method. The characteristics of radiation is further discussed here and the action involving radiation such as absorption or emission. Quantitative analysis for radiation is available here but most important thing is about single and double beam spectrophotometer

Chapter 5: Determination of possible organic compound based on FTIR spectroscopy

Chapter 6: Determination of substance from light. Consists of AAS, AES and APS. The main component of investigation here is the specific wavelength whether by absorption or by emission.

Chapter 7: Separation using 2 different phases. Gas and liquid chromatography. Type of equilibrium processes includes adsorption, partition, exclusion, ion exchange and affinity for separation.

Chapter 8: Gas chromatography. GSC and GLC where the different phase of stationary phase is used. Principle of gas chromatograph is studied

Chapter 9: Similar to chapter 8 but for liquid chromatograph - HPLC.