Biological Applications of Infrared Spectroscopy

Barbara H. Stuart
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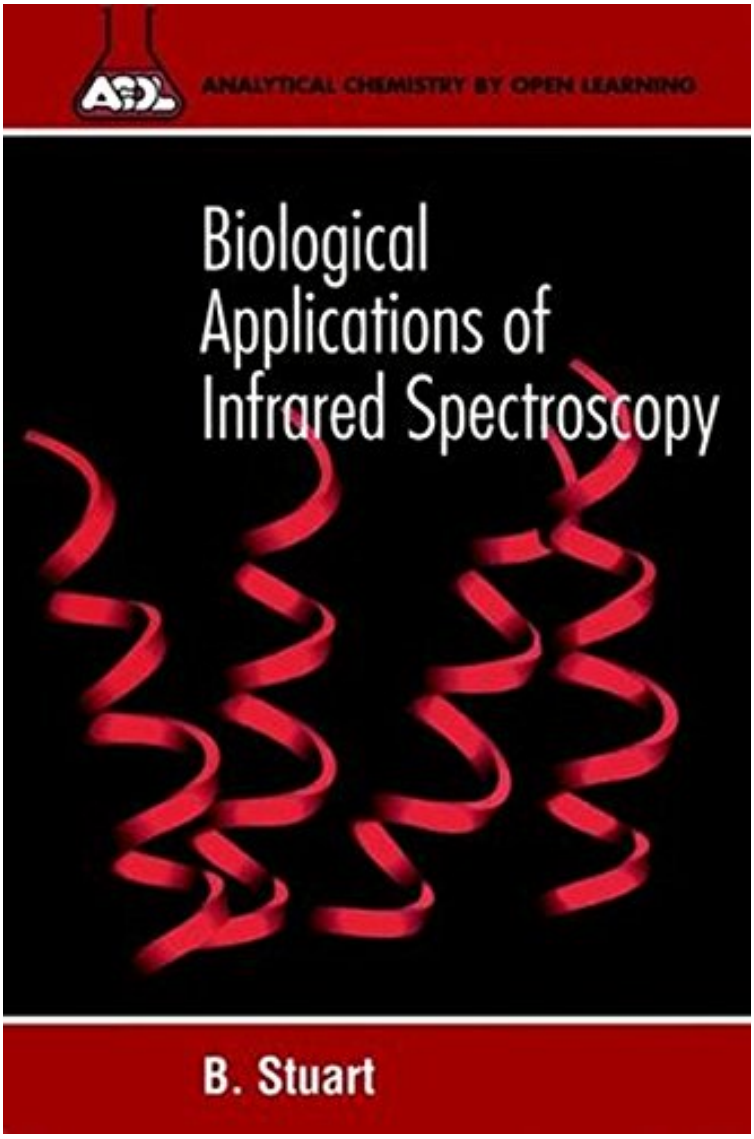

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Barbara H. Stuart : Biological Applications of Infrared Spectroscopy before purchasing it in order to gage whether or not it would be worth my time, and all praised Biological Applications of Infrared Spectroscopy:

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wish to learn the basics of FTIR as applied to the analysis of proteins, peptides, lipids, biomembranes, carbohydrates, foods, etc. The book contains chapters dedicated to instrumentation, sampling techniques, spectrum interpretation, quantitative analysis and some applications. Each chapter contains a useful set of questions (answers provided) and there are a few suggested experiments. The book is written at about a senior chemistry undergraduate level but would be useful for those wanting to learn the basics. The sections dedicated to the analysis of proteins and peptides, lipids, biomembranes and pharmaceuticals 'outshine' the others. The nice thing about this book is that it is not merely a 'rehash' of somebodys published work crammed into loosely related chapters (like many other books on the subject). A larger bibliography and references would have made the applications sections better.

Infrared spectroscopy (IR) is a well established analytical technique for the identification of organic molecules. In this first dedicated volume, the theory of IR is described and is then related to various biological systems. Chapters on instrumentation, sample preparation and the interpretation of spectra give the reader practical help in using the technique. A comprehensive applications chapter illustrates the diversity and power of this technique in real systems.

From the PublisherInfrared spectroscopy (IR) is a well established analytical technique for the identification of organic molecules. In this first dedicated volume, the theory of IR is described and is then related to various biological systems. Chapters on instrumentation, sample preparation and the interpretation of spectra give the reader practical help in using the technique. A comprehensive applications chapter illustrates the diversity and power of this technique in real systems.From the Back CoverBiological Applications of Infrared Spectroscopy Infrared spectroscopy (IR) is a well established analytical technique for the identification of organic molecules. However, it is now being used more and more by biologists and biochemists in the analysis of complex biological molecules, such as proteins, lipids and nucleic acids. In this first dedicated volume, which is aimed at the beginner user level, the theory of IR is described and is then related to various biological systems. Chapters on instrumentation, sample preparation and the interpretation of spectra give the reader practical help in using the technique. A comprehensive applications chapter illustrates the diversity and power of this technique in real systems. Analytical Chemistry by Open Learning This series provides a uniquely comprehensive and integrated coverage of analytical chemistry, covering basic concepts, classical methods, instrumental techniques and applications. The learning objectives of each text are clearly identified and the student's understanding of the material is constantly challenged by self-assessment questions with reinforcing or remedial responses. The overall objective of Analytical Chemistry by Open Learning is to enable the student to select and apply appropriate methods and techniques to solve analytical problems, and to interpret the results obtained.