

Many of the areas described have so far been a domain of physicists. To scientists interested in applications to chemistry, it is a particular advantage of the book that some of the phenomena (for example CARS) are also described by using symbols with which chemists are familiar.

In view of the many marvellous experiments described in this book it is important to keep in mind that vibrational spectroscopy is a relatively poor technique for the full determination of molecular structures. The structural evidence which this method provides is essentially circumstantial and often incomplete and the results of a study often depend on rather subjective interpretations of observables. In some of the chapters, for example the one on matrix isolation, the authors do an excellent job to point out the dangers and potential sources of errors which in the past have led to a number of misleading conclusions. In other chapters one might have wished for a more urgent warning than is actually presented to protect potential users.

Apart from some trivialities (a nearly useless author index and a not much more useful index of keywords) this reporter has no complaint concerning this book. I recommend it strongly as an excellent source of key references and as a valuable introduction to the recent advances in a rapidly expanding area of important research. I am sure that every scientist whose activities are somehow involved with vibrational spectroscopy will find this a very useful volume.

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### Erratum

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Page C17, line 5 of the 2nd paragraph should read:

Strukturfaktoren ( $I > 3.5 \sigma$ ). Die Struktur wurde mit Hilfe konventioneller Schwer-