

the 2000-cm<sup>-1</sup> region may be elaborated upon by use of <sup>13</sup>CO or C<sup>18</sup>O labeling to produce a body of vibrational data from which one might hope to extract information about the metal-carbonyl bonding interaction. Because the carbonyl stretching modes are much higher in frequency than any other normal mode of metal carbonyl molecules, they may, with the aid of simplifying assumptions, be treated independently of the other normal modes. Braterman thoroughly describes the approximate normal-coordinate treatments and provides a balanced account of what the parameters derived from vibrational analyses have at one time or another been thought to signify.

In a later chapter, Braterman presents selected vibrational data for metal carbonyls. Although coverage of the literature is far from complete, the many tables are sure to be useful. The book should also be useful as a self-study text for anyone beginning to use infrared spectroscopy in organometallic research. It includes a long chapter on experimental methods and another on interpretation of spectra.

A single chapter covers other forms of spectroscopy of metal carbonyl compounds, including photoelectron, electronic, and <sup>13</sup>C nuclear magnetic resonance spectra. The chapter is too brief to be of much value as a critical discussion.

This is a well-written and useful book.

THEODORE L. BROWN

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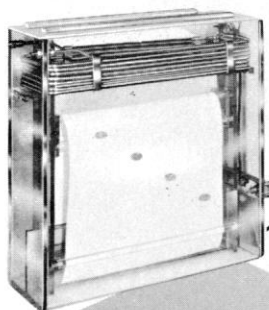
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