

# CONTENTS

Preface .....	vii
Introduction .....	ix
(a) Speed of light .....	ix
(b) Frequency measurements—saturated absorption spectroscopy (tables) .....	xvi
CH <sub>4</sub> (x); OsO <sub>4</sub> (x, xvi, xvii); SF <sub>6</sub> (xi, xviii–xxiv); 2-0 CO (xxv); 9 and 10 μm CO <sub>2</sub> (xxvi–xxix)	
(c) Heterodyne frequency measurements (tables) .....	xxx
Vibration-rotation: CO (xxx); DBr (xxxi–xxxii); OCS (xxxv–xlvi); N <sub>2</sub> O (xlvii–li); <sup>14</sup> NH <sub>3</sub> (lii–lxiv); <sup>15</sup> NH <sub>3</sub> (lxv–lxx)	
Pure rotation: CO (xxxiii); HF (xxxiv)	
(d) C <sub>2</sub> H <sub>4</sub> —Explanation of notation used in pages 806–851. . . .	xiii
(e) Miscellaneous information—locating pressures, pathlengths, pressure shifts, laser transitions in isotopic carbon dioxide .....	xiv
(f) Calculation of wavenumbers of ν <sub>2</sub> of NH <sub>3</sub> .....	xv
Pictorial Summary of Spectral Maps and Wavenumber Tables . . .	1
Spectral Maps, Wavenumber Tables and Transition Assignments.	2
CO (492–535); OCS (250–283); CO <sub>2</sub> (90–119, 536–571); N <sub>2</sub> O (50–89, 284–365, 572–805); H <sub>2</sub> O (2–49, 366–491); <sup>14</sup> NH <sub>3</sub> (120–175); <sup>15</sup> NH <sub>3</sub> (176–249); C <sub>2</sub> H <sub>4</sub> (806–851)	