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CRC Handbook of High Resolution Infrared Laboratory Spectra of Atmospheric Interest

Edited by
David G. Murcray, Aaron Goldman



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Russell H. Powell



Crc Handbook Of High Resolution Infrared Laboratory Spectra Of Atmospheric Interest:

CRC Handbook of High Resolution Infrared Laboratory Spectra of Atmospheric Interest David G. Murcray, Murcray DG., 1981 [Handbook of High Resolution Infrared Laboratory Spectra of Atmospheric Interest \(1981\)](#) Aaron Goldman, David G. Murcray, 2017-11-22 The handbook presents spectra to be utilized for the detection and measurement of new constituents in the earth's atmosphere and to obtain data for common minor species with large gas amounts in the absorption cell such as CH₄ and N₂O. These results can be applied in the identification of absorption features in atmospheric spectra determined over long atmospheric paths. The spectra were recorded with Fourier Transform Spectrometers which are more precise than grating spectrometers. Each molecule spectrum was plotted on two scales: a condensed scale covering the range from 75 to 300 cm⁻¹ in one frame and an expanded view covering 20 or 10 cm⁻¹ per frame. Each plot contains the name of the molecule, chemical formula, the gas pressure, cell length, and estimated resolution of the spectrum. *CRC Handbook of High Resolution Infrared Laboratory Spectra of Atmospheric Interest* David G.

Murcray, Murcray DG., 1981 **Workshop on Laboratory and Astronomical High Resolution Spectra** A. J. Sauval, A. Jacques Sauval, R. Blomme, Ronny Blomme, Nicolas Grevesse, 1995 **Molecules and Radiation** Jeffrey I.

Steinfeld, 2005-06-10 This unified treatment introduces upper level undergraduates and graduate students to the concepts and methods of modern molecular spectroscopy and their applications to quantum electronics, lasers, and related optical phenomena. Starting with a review of the prerequisite quantum mechanical background, the text examines atomic spectra and diatomic molecules including the rotation and vibration of diatomic molecules and their electronic spectra. A discussion of rudimentary group theory advances to considerations of the rotational spectra of polyatomic molecules and their vibrational and electronic spectra, molecular beams, masers, and lasers, and a variety of forms of spectroscopy including optical resonance spectroscopy, coherent transient spectroscopy, multiple photon spectroscopy, and spectroscopy beyond molecular constants. The text concludes with a series of useful appendixes. **Exploration of the Solar System by Infrared Remote Sensing**

R. A. Hanel, 2003-03-06 This book describes all aspects of the theory, instrumental techniques, and observational results of the remote sensing of objects in our Solar System through studies of infrared radiation. Fully revised since publication of the first edition in 1992, it now incorporates the latest technologies, new mission results, and scientific discoveries. It also includes a fully up-to-date bibliography to reflect the advances made in this field during the past ten years. The presentation will appeal to advanced students and professional planetary science researchers, although some chapters are of wider interest.

Phosgene T.A. Ryan, E.A. Seddon, K.R. Seddon, C. Ryan, 1996-05-24 Phosgene (COCl₂) is a C1 chemical of major industrial importance. The annual production worldwide is more than 1 million tons, 90% of which is used in the manufacture of isocyanates and of polyurethane and polycarbonate resins. Phosgene is also extensively used as a synthetic reagent in organic chemistry, in particular in the preparation of acyl chlorides, chloroformate esters, organic carbonates, and carbamoyl chlorides.

Although more than 7000 papers have appeared on phosgene and some 1000 papers on its analogues this is the first book on these interesting chemicals It presents a critical treatise of phosgene ranging from its discovery and subsequent use as a war gas to some potential applications of the material into the 21st century It includes chapters on biological effects and industrial hygiene on synthesis formation and manufacture analysis uses environmental effects and physical and thermodynamic properties Reactions with organic and inorganic materials are described Four of the seventeen chapters are devoted to a description of the carbonyl halides especially carbonyl difluoride related to phosgene and a special section deals collectively with the electronic structures of carbonyl halide molecules Featuring the first ever comprehensive discussion of the medical effects of phosgene poisoning and the most modern methods of treating exposure victims the book will be of interest to historians and militarists and those working in the chemical industries heavy chemicals agricultural and pharmaceutical university libraries hospitals medical research centres museums environmental research centres poison units and health and safety institutions world wide

Literature 1984, Part 2 S. Böhme, Prof. Dr. Walter Fricke, H. Hefele, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-04-17

Optical Remote Sensing of Air Pollution P. Camagni, S. Sandroni, 2013-10-22

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National Union Catalog, 1982 Subject Catalog, 1981 Library of Congress, 1981 **Subject Catalog** Library of Congress, 1981

Review of Spectroscopic Parameters for Upper Atmospheric Measurements Mary Ann H. Smith, 1985

Infrared Spaceborne Remote Sensing, 1995 National Union Catalog, 1981, 1982

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