

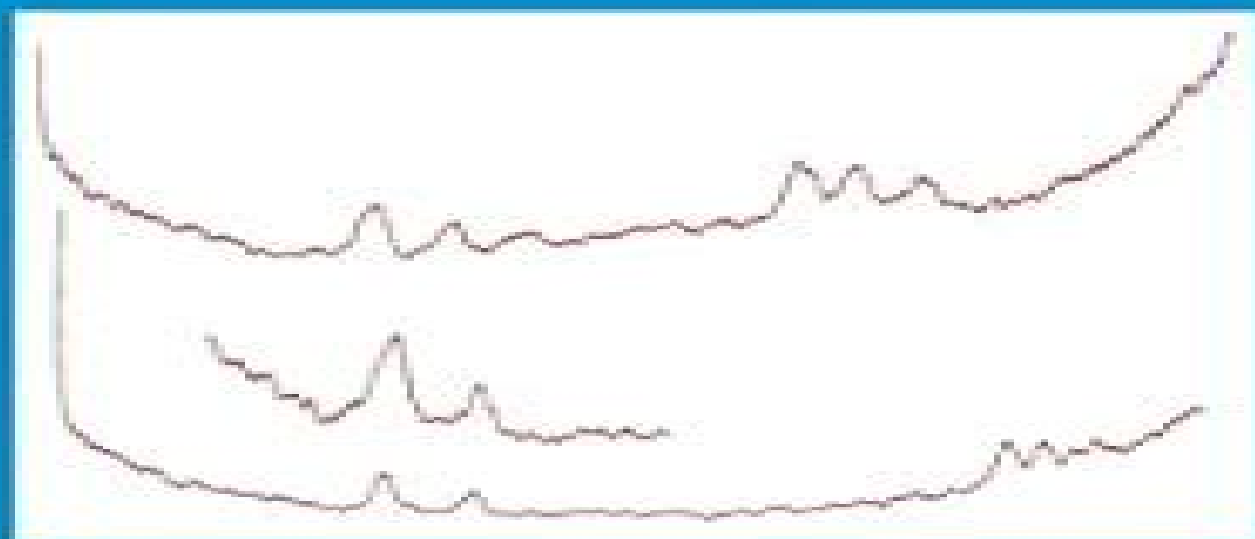
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STRUCTURE

James R. Durig
(Series Editor)

Volume 23

MOLECULAR APPROACH TO SOLIDS

A. N. Lazarev



Molecular Approach To Solids Vibrational Spectra And Structure V23

Charles Bealer Pate



Molecular Approach To Solids Vibrational Spectra And Structure V23:

Cumulated Index to the Books ,1999 **The Cumulative Book Index** ,1999 **Molecular Approach to Solids**

A.N. Lazarev,1998-07-09 The current volume in the series Vibrational Spectra and Structure is a single topic volume on the vibrational spectra of molecules containing silicon in the solid state Molecular Approaches to Solids has been treated by the workers in the Institute for Silicate Chemistry of the Russian Academy of Science in St Petersburg for the past two decades In the last 15 years a number of publications have originated from the laboratory where quantum mechanical computations for suitably selected molecules have been utilized to explain the origins of some structure bonding interrelationships and silicates and to evaluate their force constants Since most of the developments in this area have been published in the Russian literature they remain relatively inaccessible to the Western scientists This volume is a compilation of many of these publications and summarizes the essential conclusions of these studies Unfortunately Professor Lazarev passed away after he had submitted the volume for publication

Molecular Approach to Solids A. N. Lazarev,1998-07-09 The current volume in the series Vibrational Spectra and Structure is a single topic volume on the vibrational spectra of molecules containing silicon in the solid state Molecular Approaches to Solids has been treated by the workers in the Institute for Silicate Chemistry of the Russian Academy of Science in St Petersburg for the past two decades In the last 15 years a number of publications have originated from the laboratory where quantum mechanical computations for suitably selected molecules have been utilized to explain the origins of some structure bonding interrelationships and silicates and to evaluate their force constants Since most of the developments in this area have been published in the Russian literature they remain relatively inaccessible to the Western scientists This volume is a compilation of many of these publications and summarizes the essential conclusions of these studies Unfortunately Professor Lazarev passed away after he had submitted the volume for publication

Physics Briefs ,1986 **Cities and Their Vital Systems** Advisory Committee on Technology and Society,1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible

U.S. Government Research & Development Reports ,1969 **Applied Science & Technology Index** ,2000 **Government Reports Announcements & Index** ,1981-10 **Scientific and Technical Aerospace Reports** ,1986

Bibliography of Scientific and Industrial Reports ,1969 **Vibrational Spectroscopy of Solids** P. M. A.

Sherwood,1972-09-21 This 1972 monograph is devoted to the analysis and interpretation of the infrared and Raman spectra of solid compounds frequently used for their identification and characterization It was thought unsatisfactory to analyse such

spectra by the theory applicable to gas phase samples though this was frequently done Furthermore the results obtained by far infrared and laser Raman spectrometers which detect the movement of atoms and or molecules as a whole had no gas phase analogy A separate approach to solid state vibrational spectra was therefore proposed within this volume Dr Sherwood describes the solid state physics of vibrational spectroscopy and extends it to the more complex structures of low symmetry He assumes an understanding of the infrared and Raman spectra of gases

Government Reports Announcements

,1968 *Molecular Approach to Solids* A.N. Lazarev,1998-07-23 The current volume in the series Vibrational Spectra and Structure is a single topic volume on the vibrational spectra of molecules containing silicon in the solid state Molecular Approaches to Solids has been treated by the workers in the Institute for Silicate Chemistry of the Russian Academy of Science in St Petersburg for the past two decades In the last 15 years a number of publications have originated from the laboratory where quantum mechanical computations for suitably selected molecules have been utilized to explain the origins of some structure bonding interrelationships and silicates and to evaluate their force constants Since most of the developments in this area have been published in the Russian literature they remain relatively inaccessible to the Western scientists This volume is a compilation of many of these publications and summarizes the essential conclusions of these studies Unfortunately Professor Lazarev passed away after he had submitted the volume for publication

Vibrational Spectroscopy of Molecular Liquids and Solids S. Bratos,R. M. Pick,2012-12-06 This book has its origin in a NATO Summer School organized from June 25 to July 7 1979 in Menton France The purpose of this School was a comparative study of the various aspects of vibrational spectroscopy in molecular liquids and solids This field has been rapidly expanding in the last decade unfortunately its development took place independently for liquids and for solids In these circumstances the comparison of the basic concepts and techniques used in these two branches of physics appeared as a necessity The lectures given at the Menton Advanced Study Institute as well as the exceptionally fruitful and lively discussions which followed them confirmed this point of view The need of putting together these lectures in the form of a monograph clearly appeared during the ASI and the lecturers accepted to write down the material they presented at the Institute improved thanks to the remarks of the participants It is the result of this collective work which appears in the familiar Plenum Series

Impurity Spectra of Solids

K. K. Rebane,2012-12-06 It is very rewarding for an author to know that his book is to be translated into another language and become available to a new circle of readers The study of the optics and spectroscopy of activated crystals has continued to grow The development and first remarkable successes of light scattering by impurities in crystals have occurred in the comparatively short time since my original book was sent to press After experimental observation of the sidebands wings in impurity infrared absorption spectra interest in these spectra as a source of information on the vibrations of a crystal in the neighborhood of an impurity has increased significantly Therefore in addition to making minor corrections I have supplemented the section on the effect of anharmonicity section 25 and written two new sections and another Appendix

on infrared absorption scattering of light by an impurity center in a crystal and the adiabatic approximation respectively The bibliography has received several dozen new entries but it nevertheless does not pretend to be complete nor hope that the American edition is useful and in some degree corresponds to the general deepening of our physical understanding of solids

Vibrational Spectroscopy of Molecular Liquids and Solids S. Bratos, R. M. Pick, 2013-04-14 This book has its origin in a NATO Summer School organized from June 25 to July 7 1979 in Menton France The purpose of this School was a comparative study of the various aspects of vibrational spectroscopy in molecular liquids and solids This field has been rapidly expanding in the last decade unfortunately its development took place independently for liquids and for solids In these circumstances the comparison of the basic concepts and techniques used in these two branches of physics appeared as a necessity The lectures given at the Menton Advanced Study Institute as well as the exceptionally fruitful and lively discussions which followed them confirmed this point of view The need of putting together these lectures in the form of a monograph clearly appeared during the ASI and the lecturers accepted to write down the material they presented at the Institute improved thanks to the remarks of the participants It is the result of this collective work which appears in the familiar Plenum Series **Molecular Dynamics and Structure of Solids** Robert Sague Carter, John Joseph Rush, 1969

Vibrational Spectra of Some Molecular Solids Charles Bealer Pate, 1971 **Vibrational Spectroscopy of Molecular Liquids and Solids** Springer, 2014-01-15

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