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after a brief account of the recent trends in science indicators research the authors propose a coherent system of scientometric indicators these indicators are based on the publication performance of each country in 8 science fields and reflect the versatility of the impact of the publication activity in the country in question the special aim of the indicator system is to characterize and compare the contribution of research intensive medium sized and small countries to the world s overall scientific research activity indicator values for 32 such countries are reported and evaluated relations to other economic social and science indicators are discussed this book is intended both as a data source and an analytic tool for specialists engaged in science policy science management science indicators research

scientometrics and other areas of science as well as a tool for practising research scientists

spectroscopic properties of inorganic and organometallic compounds provides a unique source of information on an important area of chemistry divided into sections mainly according to the particular spectroscopic technique used coverage in each volume includes nmr with reference to stereochemistry dynamic systems paramagnetic complexes solid state nmr and groups 13 18 nuclear quadrupole resonance spectroscopy vibrational spectroscopy of main group and transition element compounds and coordinated ligands and electron diffraction reflecting the growing volume of published work in this field researchers will find this specialist periodical report an invaluable source of information on current methods and applications specialist periodical reports provide systematic and detailed review coverage in major areas of chemical research compiled by teams of leading experts in their specialist fields this series is designed to help the chemistry community keep current with the latest developments in their field each volume in the series is published either annually or biennially and is a superb reference point for researchers rsc.org/spr

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this phonon atlas presents a collection of phonon dispersion and density of states curves of more than a hundred insulating crystals it grew out of an appendix to a handbook article on phonon spectra 2 1j from which it was finally separated mainly because this phonon atlas provides a rather self contained tool for every

scientist who is working in the field of dynamical properties of solids he often may find it useful to have a handy documentation of the experimental phonon dispersion curves which have been measured so far together with information on calculated dispersion relations and densities of states the book will be found to be incomplete by readers who are interested not only in phonon frequencies of a specific crystal but would also like to know about related properties such as elastic and dielectric constants this is at the present time beyond the scope of this volume but the authors would welcome all suggestions and criticism which could be considered for a forthcoming edition furthermore we would be pleased to provide interested readers with information about phonon spectra which came to our knowledge after completion of the manuscript on the other hand we will be most grateful for all information about phonon dispersion curves which is missing in our collection or new data for further editions

the dynamical properties of solids have recently attracted renewed interest in connection with the increasing understanding of phase transitions and related phenomena in particular soft modes or more generally phonon anomalies seem to play an important role in structural and electronic phase transitions such as ferroelectric or superconducting transitions the understanding of the mechanisms responsible for the occurrence of unusually low frequencies in phonon spectra requires a detailed analysis of the microscopic forces governing the lattice vibrations of particular importance is the influence of the electron lattice interaction in the adiabatic approximation which in many cases is the origin of peculiarities in the phonon self energy in this work the vibrational spectra of pure non metals and of those containing point defects are investigated in these materials the interrelation between the pseudo harmonic forces determining the phonon dispersion relations and the non linear anharmonic and electron phonon forces as they act in infrared and raman spectra is most obvious and can be quantitatively analysed in terms of appropriate models the main task is to arrive at a physically correct treatment of electronic degrees of freedom as for example in an electronic shell model which leads to the description of phonon spectra in terms of long range polarizabilities and short range deformabilities the purpose of our review is to stimulate further investigations which we hope will result in explicit relations between the parameters of the semi microscopic models and the matrix elements from the electronic band structure

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international tables for crystallography is the definitive resource and reference work for crystallography and structural science each of the volumes in the series contains articles and tables of data relevant to crystallographic research and to applications of crystallographic methods in all sciences concerned with the structure and properties of materials emphasis is given to symmetry diffraction methods and techniques of crystal structure determination and the physical and chemical properties of crystals the data are accompanied by discussions of theory practical explanations and examples all of which are useful for teaching volume d is concerned with the influence of symmetry on the physical and tensor properties of crystals and on their structural phase transitions this role is very important in many different disciplines of the science of materials such as crystallography elasticity solid state physics magnetism optics ferroelectricity and mineralogy and

volume d deals with all these aspects in a unified way the volume is divided into 3 parts part 1 introduces the mathematical properties of tensors and group representations and gives their independent components for each of the crystallographic groups part 2 devoted to the symmetry aspects of excitations in reciprocal space phonons electrons raman scattering and brillouin scattering part 3 deals with the symmetry aspects of structural phase transitions and twinning a prominent feature is the joint description of twinning and domain structures which are usually presented in completely separate ways in handbooks of physics and mineralogy supplementary software is provided to support and enhance chapters 1 1 and 1 2 for the determination of irreducible group representations and tensor components and part 3 on structural phase transitions new to this edition this second edition of volume d features a new chapter chapter 1 11 on the tensorial properties of local crystal susceptibilities by v e dmitrienko a kirfel and e n ovchinnikova this chapter describes the symmetry and physical phenomena that allow and restrict forbidden reflections excited at radiation energies close to the x ray absorption edges of atoms reflections caused by magnetic scattering are also discussed in part 1 chapters 1 1 an introduction to the properties of tensors 1 2 on representations of crystallographic groups 1 3 elastic properties 1 5 magnetic properties and 1 10 on tensors in quasiperiodic structures have been revised in particular chapter 1 5 features a new section on multiferroics by m kenzelmann chapter 3 3 on twinning of crystals has been updated and new sections on the effect of twinning in reciprocal space and on the relations between twinning and domain structure have been added chapter 3 4 on domain structures has also been updated more information on the series can be found at [it.iucr.org](http://it.iucr.org)

information analysis centers were developed to help the scientist and practitioner cope with the ever increasing mass of published and unpublished information in a specific field their establishment resulted from a further extension of those pressures that had brought about the formation of the specialized primary journal and the abstracting services at the turn of the century the information analysis center concept was greatly advanced by the 1963 report of the president's science advisory committee panel on science information this report stated scientific interpreters who can collect relevant data review a field and distill information in a manner that goes to the heart of a technical situation are more help to the overburdened specialist than is a mere pile of relevant documents such specialized information centers are operated in closest possible contact with working scientists in the field these centers not only furnish information about ongoing research and disseminate and retrieve information but also create new information and develop new methods of information analysis synthesis and dissemination the continually expanding biomedical literature produced by scientists from the world's laboratories research centers and medical centers led the national institute of neurological diseases and stroke in 1964 to initiate a national neurological information network of specialized centers for neurological information the centers are designed to bring under control and to promote ready access to important segments of the literature

here is a state of art examination on exact and approximate algorithms for a number of important np hard problems in the field of integer linear programming which the authors refer to as knapsack includes not only the classical knapsack problems such as binary bounded unbounded or binary multiple but also less familiar problems such as subset sum and change making well known problems that are not usually classified in the knapsack area including generalized assignment and bin packing are also covered the text fully develops an algorithmic approach without losing mathematical rigor

more than 495 000 definitions of a wide variety of acronyms initialisms abbreviations and similar contractions enable you to quickly and easily translate terms into their full names or meanings new terms from subject areas such as associations education and the internet are now included

this handbook provides an up to date account of hydrosilylation reactions and the directions in which synthetic and mechanistic studies as well as practical applications of these processes are proceeding the book consists of two parts the first is descriptive presenting the catalytic mechanistic structural and synthetic aspects of hydrosilylation as well as its application in organic and organosilicon chemistry the second part presented in tabular form sets out encyclopedic information concerning reaction conditions taken from more than 2000 papers and patents in the period 1965 1990

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