

INTRODUCTION TO SOLID STATE THEORY SPRINGER SERIES IN SOLID STATE SCIENCES

SOLID STATE CHEMISTRY AND ITS APPLICATIONS SOLID STATE PHYSICS PREPARATIVE METHODS IN SOLID STATE CHEMISTRY PROGRESS IN SOLID STATE CHEMISTRY SOLID STATE PHYSICS THE PHYSICS OF INSTABILITIES IN SOLID STATE ELECTRON DEVICES PROBLEMS IN SOLID STATE PHYSICS WITH SOLUTIONS CURRENT DEVELOPMENTS IN SOLID STATE NMR SPECTROSCOPY ELEMENTS OF SOLID STATE PHYSICS NEW DIRECTIONS IN SOLID STATE CHEMISTRY SOLID STATE PHYSICS LECTURES ON SOLID STATE PHYSICS SOLID STATE PHYSICS SOLID STATE CHEMISTRY SOLID STATE PHYSICS: ESSENTIAL CONCEPTS HISTORY OF SOLID STATE PHYSICS PERSPECTIVES IN SOLID STATE CHEMISTRY ADVANCES IN SOLID STATE PHYSICS SOLID-STATE PHYSICS RADIATION-CHEMICAL PROCESSES IN SOLID PHASE ANTHONY R. WEST GIUSEPPE GROSSO PAUL HAGENMULLER J. O. MCCALDIN JOHN J. QUINN HAROLD L. GRUBIN FUXIANG HAN NORBERT MÜLLER J.P. SRIVASATAVA C. N. R. RAO PHILIP HOFMANN PARVEEN KUMAR SIEGFRIED HUNKLINGER AARON WOLD AUGUSTA LAWRENCE JOGINDER SINGH GALSIN BERNHARD KRAMER JAMES DEANE PATTERSON EVGINIY I. GRIGORIEV

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SOLID STATE CHEMISTRY AND ITS APPLICATIONS A COMPREHENSIVE TREATMENT OF SOLID STATE CHEMISTRY COMPLETE WITH SUPPLEMENTARY MATERIAL AND FULL COLOUR ILLUSTRATIONS FROM A LEADING EXPERT IN THE FIELD SOLID STATE CHEMISTRY AND ITS APPLICATIONS SECOND EDITION DELIVERS AN ADVANCED VERSION OF WEST'S CLASSIC TEXT IN SOLID STATE CHEMISTRY EXPANDING ON THE UNDERGRADUATE STUDENT EDITION TO PRESENT A COMPREHENSIVE TREATMENT OF SOLID STATE CHEMISTRY SUITABLE FOR ADVANCED STUDENTS AND RESEARCHERS THE BOOK PROVIDES THE READER WITH AN UP TO DATE ACCOUNT OF ESSENTIAL TOPICS IN SOLID STATE CHEMISTRY AND RECENT DEVELOPMENTS IN THIS RAPIDLY DEVELOPING FIELD OF INORGANIC CHEMISTRY SIGNIFICANT UPDATES AND NEW CONTENT IN THIS SECOND EDITION INCLUDE A MORE EXTENSIVE OVERVIEW OF IMPORTANT FAMILIES OF INORGANIC SOLIDS INCLUDING SPINELS PEROVSKITES PYROCHLORES GARNETS RUDDLESDEN POPPER PHASES AND MANY MORE NEW METHODS TO SYNTHESISE INORGANIC SOLIDS INCLUDING SOL GEL METHODS COMBUSTION SYNTHESIS ATOMIC LAYER DEPOSITION SPRAY PYROLYSIS AND MICROWAVE TECHNIQUES ADVANCES IN ELECTRON MICROSCOPY X RAY AND ELECTRON SPECTROSCOPIES NEW DEVELOPMENTS IN ELECTRICAL PROPERTIES OF MATERIALS INCLUDING HIGH TC SUPERCONDUCTIVITY LITHIUM BATTERIES SOLID OXIDE FUEL CELLS AND SMART WINDOWS RECENT DEVELOPMENTS IN OPTICAL PROPERTIES INCLUDING FIBRE OPTICS SOLAR CELLS AND TRANSPARENT CONDUCTING OXIDES ADVANCES IN MAGNETIC PROPERTIES INCLUDING MAGNETORESISTANCE AND MULTIFERROIC MATERIALS HOMOGENEOUS AND HETEROGENEOUS CERAMICS CHARACTERIZATION USING IMPEDANCE SPECTROSCOPY THERMOELECTRIC MATERIALS MXENES LOW DIMENSIONAL STRUCTURES MEMRISTORS AND MANY OTHER FUNCTIONAL MATERIALS EXPANDED COVERAGE OF GLASS INCLUDING METALLIC AND FLUORIDE GLASSES CEMENT AND CONCRETE GEOPOLYMERS REFRACTORIES AND STRUCTURAL CERAMICS OVERVIEW OF BINARY OXIDES OF ALL THE ELEMENTS THEIR STRUCTURES PROPERTIES AND APPLICATIONS FEATURING FULL COLOR ILLUSTRATIONS THROUGHOUT READERS WILL ALSO BENEFIT FROM ONLINE SUPPLEMENTARY MATERIALS INCLUDING ACCESS TO CRYSTALMAKER SOFTWARE AND OVER 100 INTERACTIVE CRYSTAL STRUCTURE MODELS PERFECT FOR ADVANCED STUDENTS SEEKING A DETAILED TREATMENT OF SOLID STATE CHEMISTRY THIS NEW EDITION OF SOLID STATE CHEMISTRY AND ITS APPLICATIONS WILL ALSO EARN A PLACE AS A DESK REFERENCE IN THE LIBRARIES OF EXPERIENCED RESEARCHERS IN CHEMISTRY CRYSTALLOGRAPHY PHYSICS AND MATERIALS SCIENCE

ALTHOUGH THERE ARE MANY BOOKS PUBLISHED IN SOLID STATE PHYSICS THERE IS A WIDE GAP BETWEEN THE ACTIVE FIELD OF RESEARCH AND THE CONCEPTS TRADITIONALLY TAUGHT IN SOLID STATE COURSES THIS BOOK FILLS THAT GAP THE STYLE IS TUTORIAL SIMPLE AND COMPLETELY SELF CONTAINED SOLID STATE PHYSICS EXPLAINS TO READERS THE NEWEST ADVANCES IN THE AREA OF CONDENSED MATTER PHYSICS WITH RIGOROUS BUT LUCID MATHEMATICS EXAMPLES ARE AN INTEGRAL PART OF THE TEXT AND THEY ARE CAREFULLY DESIGNED TO APPLY THE FUNDAMENTAL

PRINCIPLES ILLUSTRATED IN THE TEXT TO CURRENTLY ACTIVE TOPICS OF RESEARCH BRIDGES THE GAP BETWEEN FUNDAMENTAL PRINCIPLES AND ACTIVE FIELDS OF RESEARCH INCLUDING EXPLANATIONS OF ALL THE LATEST ADVANCES PROVIDES AN IN DEPTH TREATMENT OF CURRENT RESEARCH TOPICS EXAMPLES ARE INTEGRAL TO THE TEXT AND APPLY FUNDAMENTAL PRINCIPLES TO CURRENT TOPICS OF RESEARCH BOTH AUTHORS HAVE MANY YEARS OF EXPERIENCE OF TEACHING AT A VARIETY OF LEVELS UNDERGRADUATE POST GRADUATE TUTORIAL WORKSHOPS AND SEMINARS

PREPARATIVE METHODS IN SOLID STATE CHEMISTRY DEALS WITH THE PREPARATIVE METHODS USED IN SOLID STATE CHEMISTRY AND HIGHLIGHTS THE IMPORTANCE OF THE CHEMIST'S ROLE IN PREPARING MATERIALS OF DESIRED QUALITY AS WELL AS OBTAINING MATERIALS ACCORDING TO THE REQUIREMENTS OF THE USER SUCH AS THE PHYSICIST TOPICS COVERED RANGE FROM HIGH PRESSURE TECHNIQUES IN PREPARATIVE CHEMISTRY TO METHODS OF GROWING SINGLE CRYSTALS OF HIGH MELTING POINT OXIDES THIS BOOK IS COMPRISED OF 14 CHAPTERS AND BEGINS WITH AN OVERVIEW OF POSSIBILITIES FOR HIGH PRESSURE SYNTHESIS AS WELL AS THE METHODS USED TO OBTAIN HIGH PRESSURES INCLUDING TRANSMISSION BY GASEOUS OR LIQUID FLUIDS OR IN THE SOLID STATE THE METHOD OF SHOCK WAVES IS THEN CONSIDERED BOTH FROM THE POINT OF VIEW OF THERMODYNAMICS AND THERMOELASTICITY ALONG WITH THE POSSIBILITY OF USING SUPERPRESSURES FOR EVIDENTLY REVOLUTIONARY APPLICATIONS SUBSEQUENT CHAPTERS FOCUS ON THE SYNTHESIS OF SINGLE CRYSTALS OF REFRACTORY OXIDES EITHER AT HIGH TEMPERATURES ESSENTIALLY LIQUID SOLID TRANSFORMATIONS OR AT LOWER TEMPERATURES IN THE PRESENCE OF A SOLVENT OR A CHEMICAL REAGENT THE PRODUCTION OF SINGLE CRYSTALS BY ELECTROLYTIC REDUCTION IN MOLTEN SALTS IS ALSO DESCRIBED NUMEROUS EXAMPLES OF VAPOR TRANSPORT REACTIONS IN A TEMPERATURE GRADIENT ARE PRESENTED THIS MONOGRAPH SHOULD BE OF INTEREST TO CHEMISTS AND STUDENTS OF SOLID STATE CHEMISTRY

INTENDED FOR A TWO SEMESTER ADVANCED UNDERGRADUATE OR GRADUATE COURSE IN SOLID STATE PHYSICS THIS TREATMENT OFFERS MODERN COVERAGE OF THE THEORY AND RELATED EXPERIMENTS INCLUDING THE GROUP THEORETICAL APPROACH TO BAND STRUCTURES MOESSBAUER RECOIL FREE FRACTION SEMI CLASSICAL ELECTRON THEORY MAGNETOCONDUCTIVITY ELECTRON SELF ENERGY AND LANDAU THEORY OF FERMIL LIQUID AND BOTH QUANTUM AND FRACTIONAL QUANTUM HALL EFFECTS INTEGRATED THROUGHOUT ARE DEVELOPMENTS FROM THE NEWEST SEMICONDUCTOR DEVICES E G SPACE CHARGE LAYERS QUANTUM WELLS AND SUPERLATTICES THE FIRST HALF INCLUDES ALL MATERIAL USUALLY COVERED IN THE INTRODUCTORY COURSE BUT IN GREATER DEPTH THAN MOST INTRODUCTORY TEXTBOOKS THE SECOND HALF INCLUDES MOST OF THE IMPORTANT DEVELOPMENTS IN SOLID STATE RESEARCHES OF THE PAST HALF CENTURY ADDRESSING E G OPTICAL AND ELECTRONIC PROPERTIES SUCH AS COLLECTIVE BULK AND SURFACE MODES AND SPECTRAL FUNCTION OF A QUASIPARTICLE WHICH IS A BASIC CONCEPT FOR UNDERSTANDING LEED INTENSITIES X RAY FINE STRUCTURE SPECTROSCOPY AND PHOTOEMISSION SO BOTH THE FUNDAMENTAL PRINCIPLES AND MOST RECENT ADVANCES IN SOLID STATE PHYSICS ARE EXPLAINED IN A CLASS TESTED TUTORIAL STYLE WITH END OF CHAPTER EXERCISES FOR REVIEW AND REINFORCEMENT OF KEY CONCEPTS AND CALCULATIONS

THE PAST THREE DECADES HAVE BEEN A PERIOD WHERE USEFUL CURRENT AND VOLTAGE INSTABILITIES IN SOLIDS HAVE PROGRESSED FROM EXCITING RESEARCH PROBLEMS TO A WIDE VARIETY OF COMMERCIALY AVAILABLE DEVICES MATERIALS AND ELECTRONICS RESEARCH HAS LED TO DEVICES SUCH AS THE TUNNEL ESAKI DIODE TRANSFERRED ELECTRON GUNN DIODE AVALANCHE DIODES REAL SPACE TRANSFER DEVICES AND THE LIKE THESE STRUCTURES HAVE PROVEN TO BE VERY IMPORTANT IN THE GENERATION AMPLIFICATION SWITCHING AND PROCESSING OF MICROWAVE SIGNALS UP TO FREQUENCIES EXCEEDING 100 GHZ IN THIS TREATISE WE FOCUS ON A DETAILED THEORETICAL UNDERSTANDING OF DEVICES OF THE KIND THAT CAN BE MADE UNSTABLE AGAINST CIRCUIT OSCILLATIONS LARGE AMPLITUDE SWITCHING EVENTS AND IN SOME CASES INTERNAL REARRANGEMENT OF THE ELECTRIC FIELD OR CURRENT DENSITY DISTRIBUTION THE BOOK IS AIMED AT THE SEMICONDUCTOR DEVICE PHYSICIST ENGINEER AND GRADUATE STUDENT A KNOWLEDGE OF SOLID STATE PHYSICS ON AN ELEMENTARY OR INTRODUCTORY LEVEL IS ASSUMED FURTHERMORE WE HAVE GEARED THE BOOK TO DEVICE ENGINEERS AND PHYSICISTS DESIROUS OF OBTAINING AN UNDERSTANDING SUBSTANTIALLY DEEPER THAN THAT ASSOCIATED WITH A SMALL SIGNAL EQUIVALENT CIRCUIT APPROACH WE FOCUS ON BOTH ANALYTICAL AND NUMERICAL TREATMENT OF SPECIFIC DEVICE PROBLEMS CONCERNING OURSELVES WITH THE MECHANISM THAT DETERMINES THE CONSTITUTIVE RELATION GOVERNING THE DEVICE THE BOUNDARY CONDITIONS CONTACT EFFECTS AND THE EFFECT OF THE LOCAL CIRCUIT ENVIRONMENT

THIS BOOK PROVIDES A PRACTICAL APPROACH TO CONSOLIDATE ONE'S ACQUIRED KNOWLEDGE OR TO LEARN NEW CONCEPTS IN SOLID STATE PHYSICS THROUGH SOLVING PROBLEMS IT CONTAINS 300 PROBLEMS ON VARIOUS SUBJECTS OF SOLID STATE PHYSICS THE PROBLEMS IN THIS BOOK CAN BE USED AS HOMEWORK ASSIGNMENTS IN AN INTRODUCTORY OR ADVANCED COURSE ON SOLID STATE PHYSICS FOR UNDERGRADUATE OR GRADUATE STUDENTS IT CAN ALSO SERVE AS A DESIRABLE REFERENCE BOOK TO SOLVE TYPICAL PROBLEMS AND GRASP MATHEMATICAL TECHNIQUES IN SOLID STATE PHYSICS IN PRACTICE IT IS MORE FASCINATING AND REWARDING TO LEARN A NEW IDEA OR TECHNIQUE THROUGH SOLVING CHALLENGING PROBLEMS RATHER THAN THROUGH READING ONLY IN THIS ASPECT THIS BOOK IS NOT A PLAIN COLLECTION OF PROBLEMS BUT IT PRESENTS A LARGE NUMBER OF PROBLEM SOLVING IDEAS AND PROCEDURES SOME OF WHICH ARE VALUABLE TO PRACTITIONERS IN CONDENSED MATTER PHYSICS

THIS BOOK PRESENTS SOME OF THE LATEST DEVELOPMENTS IN SOLID STATE NMR WITH POTENTIAL APPLICATIONS IN

BOTH MATERIALS AND BIOLOGICAL SCIENCE THE MAIN EMPHASIS IS ON A STRONG LINK BETWEEN THEORY AND EXPERIMENT VIA NUMERICAL SIMULATION OF NMR SPECTRA WHICH PLAY A PIVOTAL ROLE IN THE DESIGN AND DEVELOPMENT OF PULSE SCHEMES IN SOLID STATE NMR THE PAPERS FOCUS ON NON BIOLOGICAL TOPICS OF SOLID STATE NMR SPECTROSCOPY MAKING THE BOOK USEFUL FOR SCIENTISTS AND ADVANCED STUDENTS IN CHEMISTRY PHYSICS AND MATERIALS SCIENCE STRIVING FOR DEEPER UNDERSTANDING OF THIS TOPIC AND ITS APPLICATION POTENTIAL THREE INVITED REVIEWS FOCUS ON DEVELOPMENTS IN SOLID STATE NMR OF QUADRUPOLEAR NUCLEI WHICH ARE OF HIGH INTEREST IN AREAS LIKE MATERIALS SCIENCE AND HETEROGENEOUS CATALYSIS

THIS REVISED AND UPDATED FOURTH EDITION OF THE TEXT BUILDS ON THE STRENGTH OF PREVIOUS EDITION AND GIVES A SYSTEMATIC AND CLEAR EXPOSITION OF THE FUNDAMENTAL PRINCIPLES OF SOLID STATE PHYSICS THE TEXT COVERS THE TOPICS SUCH AS CRYSTAL STRUCTURES AND CHEMICAL BONDS SEMICONDUCTORS DIELECTRICS MAGNETIC MATERIALS SUPERCONDUCTORS AND NANOMATERIALS WHAT DISTINGUISHES THIS TEXT IS THE CLARITY AND PRECISION WITH WHICH THE AUTHOR DISCUSSES THE PRINCIPLES OF PHYSICS THEIR RELATIONS AS WELL AS THEIR APPLICATIONS WITH THE INTRODUCTION OF NEW SECTIONS AND ADDITIONAL INFORMATION THE FOURTH EDITION SHOULD PROVE HIGHLY USEFUL FOR THE STUDENTS THIS BOOK IS DESIGNED FOR THE COURSES IN SOLID STATE PHYSICS FOR B SC HONS AND M SC STUDENTS OF PHYSICS BESIDES THE BOOK WOULD ALSO BE USEFUL TO THE STUDENTS OF CHEMISTRY MATERIAL SCIENCE ELECTRICAL ELECTRONIC AND ALLIED ENGINEERING DISCIPLINES NEW TO THE FOURTH EDITION SOLVED EXAMPLES HAVE BEEN INTRODUCED TO EXPLAIN THE FUNDAMENTAL PRINCIPLES OF PHYSICS MATRIX REPRESENTATION FOR SYMMETRY OPERATIONS HAS BEEN INTRODUCED IN CHAPTER 1 TO ENABLE THE USE OF GROUP THEORY FOR TREATING CRYSTALLOGRAPHY A SECTION ENTITLED OTHER CONTRIBUTIONS TO HEAT CAPACITY HAS BEEN INTRODUCED IN CHAPTER 5 A STATEMENT ON KONDO EFFECT MINIMUM HAS BEEN ADDED IN CHAPTER 14 A SECTION ON GRAPHENES HAS BEEN INTRODUCED IN CHAPTER 16 THE SECTION ON CARBON NANOTUBES IN CHAPTER 16 HAS BEEN REVISED A LESSON ON GROUP THEORY HAS BEEN ADDED AS APPENDIX

IN THE NEW EDITION OF THIS WIDELY PRAISED TEXTBOOK ALL THE CHAPTERS HAVE BEEN REVISED AND THE AUTHORS HAVE BROUGHT THE WORK COMPLETELY UP TO DATE BY THE ADDITION OF NEW MATERIAL ON NUMEROUS TOPICS IN RECENT YEARS SOLID STATE CHEMISTRY HAS EMERGED AS A VERY IMPORTANT ELEMENT OF MAINSTREAM CHEMISTRY AND MATERIALS SCIENCE STUDENTS TEACHERS AND RESEARCHERS NEED TO UNDERSTAND THE CHEMISTRY OF SOLIDS BECAUSE OF THE CRUCIAL ROLE THIS PLAYS IN DETERMINING THE PROPERTIES OF MATERIALS AN UNDERSTANDING OF SOLID STATE CHEMISTRY IS ALSO ESSENTIAL IN MATERIALS DESIGN AND MANY FASCINATING RELATIONSHIPS BETWEEN THE STRUCTURE AND PROPERTIES OF SOLIDS HAVE BEEN DISCOVERED BY CHEMISTS THIS TEXT REQUIRES ONLY AN UNDERSTANDING OF BASIC PHYSICS CHEMISTRY AND CRYSTALLOGRAPHY AND IS ENHANCED WITH THE MOST RECENT EXAMPLES CASE STUDIES AND REFERENCES IT WILL BE OF VALUE TO ADVANCED STUDENTS AND RESEARCHERS STUDYING SOLID STATE CHEMISTRY AND MATERIALS SCIENCE AS A TEXT AND REFERENCE WORK

A MUST HAVE TEXTBOOK FOR ANY UNDERGRADUATE STUDYING SOLID STATE PHYSICS THIS SUCCESSFUL BRIEF COURSE IN SOLID STATE PHYSICS IS NOW IN ITS SECOND EDITION THE CLEAR AND CONCISE INTRODUCTION NOT ONLY DESCRIBES ALL THE BASIC PHENOMENA AND CONCEPTS BUT ALSO SUCH ADVANCED ISSUES AS MAGNETISM AND SUPERCONDUCTIVITY EACH SECTION STARTS WITH A GENTLE INTRODUCTION COVERING BASIC PRINCIPLES PROGRESSING TO A MORE ADVANCED LEVEL IN ORDER TO PRESENT A COMPREHENSIVE OVERVIEW OF THE SUBJECT THE BOOK IS PROVIDING QUALITATIVE DISCUSSIONS THAT HELP UNDERGRADUATES UNDERSTAND CONCEPTS EVEN IF THEY CAN T FOLLOW ALL THE MATHEMATICAL DETAIL THE REVISED EDITION HAS BEEN CAREFULLY UPDATED TO PRESENT AN UP TO DATE ACCOUNT OF THE ESSENTIAL TOPICS AND RECENT DEVELOPMENTS IN THIS EXCITING FIELD OF PHYSICS THE COVERAGE NOW INCLUDES GROUND BREAKING MATERIALS WITH HIGH RELEVANCE FOR APPLICATIONS IN COMMUNICATION AND ENERGY LIKE GRAPHENE AND TOPOLOGICAL INSULATORS AS WELL AS TRANSPARENT CONDUCTORS THE TEXT ASSUMES ONLY BASIC MATHEMATICAL KNOWLEDGE ON THE PART OF THE READER AND INCLUDES MORE THAN 100 DISCUSSION QUESTIONS AND SOME 70 PROBLEMS WITH SOLUTIONS FREE TO LECTURERS FROM THE WILEY VCH WEBSITE THE AUTHOR S WEBPAGE PROVIDES ONLINE NOTES ON X RAY SCATTERING ELASTIC CONSTANTS THE QUANTUM HALL EFFECT TIGHT BINDING MODEL ATOMIC MAGNETISM AND TOPOLOGICAL INSULATORS THIS NEW EDITION INCLUDES THE FOLLOWING UPDATES AND NEW FEATURES EXPANDED COVERAGE OF MECHANICAL PROPERTIES OF SOLIDS INCLUDING AN IMPROVED DISCUSSION OF THE YIELD STRESS CRYSTAL STRUCTURE MECHANICAL PROPERTIES AND BAND STRUCTURE OF GRAPHENE THE COVERAGE OF ELECTRONIC PROPERTIES OF METALS IS EXPANDED BY A SECTION ON THE QUANTUM HALL EFFECT INCLUDING EXERCISES NEW TOPICS INCLUDE THE TIGHT BINDING MODEL AND AN EXPANDED DISCUSSION ON BLOCH WAVES WITH RESPECT TO SEMICONDUCTORS THE DISCUSSION OF SOLAR CELLS HAS BEEN EXTENDED AND IMPROVED REVISED COVERAGE OF MAGNETISM WITH ADDITIONAL MATERIAL ON ATOMIC MAGNETISM MORE EXTENSIVE TREATMENT OF FINITE SOLIDS AND NANOSTRUCTURES NOW INCLUDING TOPOLOGICAL INSULATORS RECOMMENDATIONS FOR FURTHER READING HAVE BEEN UPDATED AND INCREASED NEW EXERCISES ON HALL MOBILITY LIGHT PENETRATING METALS BAND STRUCTURE

SOLID STATE IS THE CORE SUBJECT OF SCIENCE THE SUBJECT HAS A WIDE SCOPE AND ITS APPLICATION IS EXTENSIVE THE TEXT BOOK FOCUSES THE NEED OF FIRST LEVEL TEXT BOOK FOR GRADUATE LEVEL STUDENTS ONE OF THE SALIENT FEATURES OF THIS BOOK IS THAT IT IS WRITTEN IN A SIMPLE AND LUCID LANGUAGE WITH CONCEPTUAL CLARITY THE PRESENT TEXT BOOK ENDEAVOURS TO PROVIDE RELEVANT THEORY AND PRINCIPAL OF SOLID STATE PHYSICS AND ITS

APPLICATIONS I HOPE THAT THIS BOOK WILL BE OF IMMENSE VALUE TO THE TECHNICAL TEACHERS STUDENTS AS WELL AS PROFESSIONALS

THIS HIGHLY REGARDED TEXTBOOK PROVIDES A GENERAL INTRODUCTION TO SOLID STATE PHYSICS IT COVERS A WIDE RANGE OF PHYSICAL PHENOMENA OCCURRING IN SOLIDS AND DISCUSSES FUNDAMENTAL CONCEPTS FOR DESCRIBING THEM TRADITIONAL THEMES ARE COMPLIMENTED BY MODERN TOPICS LIKE LOW DIMENSIONAL SYSTEMS STRONGLY CORRELATED MATERIALS NANOSCALE SYSTEMS AND NON CRYSTALLINE SOLIDS WHICH ARE GAINING INCREASING TECHNICAL AND SCIENTIFIC IMPORTANCE HELPFUL FOR EXAM PREPARATION ARE NUMEROUS EXERCISES IN ALL CHAPTERS

THE SUBJECT MATTER OF SOLID STATE CHEMISTRY LIES WITHIN THE SPHERES OF BOTH PHYSICAL AND INORGANIC CHEMISTRY IN ADDITION THERE IS A LARGE OVERLAP WITH SOLID STATE PHYSICS AND MATERIALS ENGINEERING HOWEVER SOLID STATE CHEMISTRY HAS STILL TO BE RECOGNIZED BY THE GENERAL BODY OF CHEMISTS AS A LEGITIMATE SUBFIELD OF CHEMISTRY THE DISCIPLINE IS NOT EVEN WELL DEFINED AS TO CONTENT AND HAS MANY FACETS THAT MAKE WRITING A TEXTBOOK A FORMIDABLE TASK THE EARLY STUDIES CARRIED OUT IN THE UNITED STATES BY ROLAND WARD AND HIS CO WORKERS EMPHASIZED THE SYNTHESIS OF NEW MATERIALS AND THE DETERMINATION OF THEIR STRUCTURE HIS WORK ON DOPED ALKALINE EARTH SULFIDES FORMED THE BASIS FOR THE DEVELOPMENT OF INFRARED PHOSPHORS AND HIS PIONEERING STUDIES ON OXIDES WERE IMPORTANT IN UNDERSTANDING THE STRUCTURAL FEATURES OF BOTH THE PEROVSKITE OXIDES AS WELL AS THE MAGNETOPLUMBITES IN 1945 A F WELLS PUBLISHED THE FIRST EDITION OF STRUCTURAL INORGANIC CHEMISTRY THIS WORK ATTEMPTS TO DEMONSTRATE THAT THE SYNTHESIS STRUCTURE AND PROPERTIES OF SOLIDS FORM AN IMPORTANT PART OF INORGANIC CHEMISTRY NOW AFTER ALMOST 50 YEARS DURING WHICH MANY NOTABLE ADVANCES HAVE BEEN MADE IN SOLID STATE CHEMISTRY IT IS STILL EVIDENT THAT THE SYNTHESIS STRUCTURE DETERMINATION AND PROPERTIES OF SOLIDS RECEIVE LITTLE ATTENTION IN MOST TREATMENTS OF INORGANIC CHEMISTRY THE DEVELOPMENT OF THE FIELD SINCE THE EARLY STUDIES OF ROLAND WARD EARLY 1940S HAS BEEN RAPID

SOLIDS ARE MADE UP OF DENSELY PACKED ATOMS THE INTERACTIONS BETWEEN THESE ATOMS DECIDE THE VARIOUS MECHANICAL ELECTRICAL THERMAL OPTICAL AND MAGNETIC PROPERTIES OF THE SOLIDS THESE SOLIDS CAN BE BROADLY CLASSIFIED INTO CRYSTALLINE SOLIDS AND AMORPHOUS SOLIDS SOLID STATE PHYSICS IS THE SUB DISCIPLINE OF CONDENSED MATTER PHYSICS WHICH IS CONCERNED WITH THE STUDY OF SUCH SOLIDS IT FOCUSES ON HOW THE LARGE SCALE PROPERTIES OF MATTER RESULT FROM ITS ATOMIC SCALE PROPERTIES THE WIDE VARIETY OF TECHNIQUES USED IN SOLID STATE PHYSICS RANGE FROM ELECTROMAGNETISM METALLURGY CRYSTALLOGRAPHY AND QUANTUM MECHANICS SOME OF THE EMERGING AREAS OF RESEARCH IN THIS FIELD ARE QUASICRYSTALS SPIN GLASS NANOMATERIALS TWO DIMENSIONAL MATERIALS AND SUPERCONDUCTIVITY THE SUBJECT OF SOLID STATE PHYSICS FINDS EXTENSIVE APPLICATION IN THE FIELDS OF CONSUMER ELECTRONICS FIBER OPTICS AND SILICON BASED MEMORY BITS THIS BOOK ATTEMPTS TO UNDERSTAND THE MULTIPLE BRANCHES THAT FALL UNDER THE DISCIPLINE OF SOLID STATE PHYSICS AND HOW SUCH CONCEPTS HAVE PRACTICAL APPLICATIONS THE TOPICS COVERED IN HEREIN DEAL WITH THE CORE SUBJECTS OF SOLID STATE PHYSICS THIS BOOK IS AN ESSENTIAL GUIDE FOR BOTH ACADEMICIANS AND THOSE WHO WISH TO PURSUE THIS DISCIPLINE FURTHER

THE 2001 SPRING MEETING OF THE 65TH DEUTSCHE PHYSIKALISCHE GESELLSCHAFT WAS HELD TOGETHER WITH THE 65 PHYSIKERTAGUNG IN HAMBURG DURING THE PERIOD MARCH 26 30 2001 WITH MORE THAN 3500 CONFERENCE ATTENDEES A RECORD HAS AGAIN BEEN ACHIEVED AFTER SEVERAL YEARS OF STABILISATION IN PARTICIPATION THIS PROVES THE CONTINUING AND NOW EVEN INCREASING ATTRACTION OF SOLID STATE PHYSICS ESPECIALLY FOR YOUNG COLLEAGUES WHO OFTEN DISCUSS FOR THE FIRST TIME THEIR SCIENTIFIC RESULTS IN PUBLIC AT THIS MEETING MORE THAN 2600 SCIENTIFIC PAPERS WERE PRESENTED ORALLY AS WELL AS POSTERS AMONG THEM ABOUT 120 INVITED LECTURES FROM GERMANY AND FROM ABROAD THIS VOLUME 41 OF ADVANCES IN SOLID STATE PHYSICS CONTAINS THE WRITTEN VERSIONS OF HALF OF THE LATTER WE NEVERTHELESS HOPE THAT THE BOOK TRULY REFLECTS THE CURRENT STATE OF THE FIELD AMAZINGLY ENOUGH THE MAJORITY OF THE PAPERS AS WELL AS THE DISCUSSIONS AT THE MEETING CONCENTRATED ON THE NANOSTRUCTURED SOLID STATE THIS REFLECTS THE CURRENTLY EXTREMELY INTENSIVE QUEST FOR DEVELOPING THE ELECTRONIC AND MAGNETIC DEVICE GENERATIONS OF THE FUTURE WHICH STIMULATES SCIENCE BESIDES THE CHALLENGE OF THE UNKNOWN AS HAS ALWAYS BEEN THE CASE SINCE THE VERY BEGINNING OF SOLID STATE PHYSICS ABOUT 100 YEARS AGO

LEARNING SOLID STATE PHYSICS INVOLVES A CERTAIN DEGREE OF MATURITY SINCE IT INVOLVES TYING TOGETHER DIVERSE CONCEPTS FROM MANY AREAS OF PHYSICS THE OBJECTIVE IS TO UNDERSTAND IN A BASIC WAY HOW SOLID MATERIALS BEHAVE TO DO THIS ONE NEEDS BOTH A GOOD PHYSICAL AND MATHEMATICAL BACKGROUND ONE DEFINITION OF SOLID STATE PHYSICS IS THAT IT IS THE STUDY OF THE PHYSICAL E G THE ELECTRICAL DIELECTRIC MAGNETIC ELASTIC AND THERMAL PROPERTIES OF SOLIDS IN TERMS OF BASIC PHYSICAL LAWS IN ONE SENSE SOLID STATE PHYSICS IS MORE LIKE CHEMISTRY THAN SOME OTHER BRANCHES OF PHYSICS BECAUSE IT FOCUSES ON COMMON PROPERTIES OF LARGE CLASSES OF MATERIALS IT IS TYPICAL THAT SOLID STATE PHYSICS EMPHASIZES HOW PHYSICS PROPERTIES LINK TO ELECTRONIC STRUCTURE WE HAVE RETAINED THE TERM SOLID STATE PHYSICS EVEN THOUGH CONDENSED MATTER PHYSICS IS MORE COMMONLY USED CONDENSED MATTER PHYSICS INCLUDES LIQUIDS AND NON CRYSTALLINE SOLIDS SUCH AS GLASS WHICH WE SHALL NOT DISCUSS IN DETAIL MODERN SOLID STATE PHYSICS CAME

OF AGE IN THE LATE THIRTIES AND FORTIES AND HAD ITS MOST EXTENSIVE EXPANSION WITH THE DEVELOPMENT OF THE TRANSISTOR INTEGRATED CIRCUITS AND MICROELECTRONICS MOST OF MICROELECTRONICS HOWEVER IS LIMITED TO THE PROPERTIES OF INHOMOGENEOUSLY DOPED SEMICONDUCTORS SOLID STATE PHYSICS INCLUDES MANY OTHER AREAS OF COURSE AMONG THE LARGEST OF THESE ARE FERROMAGNETIC MATERIALS AND SUPERCONDUCTORS JUST A LITTLE LESS THAN HALF OF ALL WORKING PHYSICISTS ARE IN CONDENSED MATTER A COURSE IN SOLID STATE PHYSICS TYPICALLY BEGINS WITH THREE BROAD AREAS 1 HOW AND WHY ATOMS BIND TOGETHER TO FORM SOLIDS 2 LATTICE VIBRATIONS AND PHONONS AND 3 ELECTRONS IN SOLIDS ONE WOULD THEN TYPICALLY APPLY THE ABOVE TO 4 INTERACTIONS ESPECIALLY OF ELECTRONS WITH PHONONS 5 METALS THE FERMI SURFACE AND ALLOYS 6 SEMICONDUCTORS 7 MAGNETISM 8 SUPERCONDUCTIVITY 9 DIELECTRICS AND FERROELECTRICS 10 OPTICAL PROPERTIES 11 DEFECTS AND 12 CERTAIN OTHER MODERN TOPICS SUCH AS LAYERED MATERIALS QUANTUM HALL EFFECT MESOSCOPICS NANOPHYSICS AND SOFT CONDENSED MATTER IN THIS BOOK WE WILL CONSIDER ALL OF THESE

UNLIKE MANY OTHER REFERENCES RADIATION CHEMICAL PROCESSES IN SOLID PHASE ANALYZES EXPERIMENTAL DATA ON RADIOLYSIS IN TERMS OF SOLID STATE PHYSICS IT TRACES THE EFFECT EXERTED BY MEDIA FROM PRIMARY PROCESSES OF RADIATION SUBSTANCE INTERACTION TO FINAL PRODUCTS THE AUTHORS CONSIDER THE MAIN CHEMICALLY ACTIVE ELEMENTARY EXCITATIONS ARISING UNDER IRRADIATION OF SOLIDS AND DISCUSS THE MECHANISMS OF CHEMICAL REACTIONS INDUCED BY THEM THEY PRESENT THE GENERAL PRINCIPLES OF SOLID STATE AND MOLECULAR PHYSICS AND COVER NUMEROUS RADIATION CHEMICAL PROCESSES

GETTING THE BOOKS **INTRODUCTION TO SOLID STATE THEORY SPRINGER SERIES IN SOLID STATE SCIENCES** NOW IS NOT TYPE OF INSPIRING MEANS. YOU COULD NOT UNACCOMPANIED GOING LATER THAN BOOKS BUILDUP OR LIBRARY OR BORROWING FROM YOUR LINKS TO ADMITTANCE THEM. THIS IS AN ENORMOUSLY SIMPLE MEANS TO SPECIFICALLY ACQUIRE GUIDE BY ON-LINE. THIS ONLINE MESSAGE **INTRODUCTION TO SOLID STATE THEORY SPRINGER SERIES IN SOLID STATE SCIENCES** CAN BE ONE OF THE OPTIONS TO ACCOMPANY YOU IN THE MANNER OF HAVING ADDITIONAL TIME. IT WILL NOT WASTE YOUR TIME. PUT UP WITH ME, THE E-BOOK WILL CATEGORICALLY IMPRESSION YOU NEW THING TO READ. JUST INVEST LITTLE BECOME OLD TO APPROACH THIS ON-LINE MESSAGE **INTRODUCTION TO SOLID STATE THEORY SPRINGER SERIES IN SOLID STATE SCIENCES** AS CAPABLY AS EVALUATION THEM WHEREVER YOU ARE NOW.

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