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THIS BOOK NOW IN ITS THIRD EDITION IS DESIGNED AS A TEXTBOOK FOR FIRST YEAR UNDERGRADUATE ENGINEERING STUDENTS IT COVERS ALL THE RELEVANT AND VITAL TOPICS LUCIDLY AND STRAIGHTFORWARDLY THIS BOOK EMPHASIZES THE BASIC CONCEPT OF PHYSICS FOR ENGINEERING STUDENTS IT COVERS THE TOPICS LIKE PROPERTIES OF MATTER ACOUSTICS ULTRASONICS WITH THEIR INDUSTRIAL AND MEDICAL APPLICATIONS QUANTUM PHYSICS LASERS ALONG WITH THEIR INDUSTRIAL AND MEDICAL APPLICATIONS FIBRE OPTICS WITH ITS USES IN OPTICAL COMMUNICATION AND FIBRE OPTIC SENSORS WAVE OPTICS CRYSTAL PHYSICS AND IMPERFECTION IN SOLIDS THIS BOOK CONTAINS NUMEROUS SOLVED PROBLEMS SHORT AND DESCRIPTIVE TYPE QUESTIONS AND EXERCISE PROBLEMS IT WILL HELP STUDENTS ASSESS THEIR PROGRESS AND FAMILIARIZE THEM WITH THE TYPES OF QUESTIONS SET IN EXAMINATIONS NEW TO THIS EDITION NEW CHAPTERS ON 1 WAVE MOTION 2 IMPERFECTION IN SOLIDS NEW SECTIONS ON 1 INADEQUACY OF CLASSICAL MECHANICS 2 HEISENBERG S UNCERTAINTY PRINCIPLE 3 PRINCIPLES OF SUPERPOSITION OF MATTER WAVES 4 WAVE PACKETS 5 THREE DIMENSIONAL POTENTIAL WELL PROBLEM 6 FOTONIC PRESSURE SENSOR 7 NOISE AND THEIR REMEDIES TARGET AUDIENCE B E B TECH ALL BRANCHES OF ENGINEERING THIS BOOK NOW IN ITS THIRD EDITION IS DESIGNED AS A TEXTBOOK FOR FIRST YEAR UNDERGRADUATE ENGINEERING STUDENTS IT COVERS ALL THE RELEVANT AND VITAL TOPICS LUCIDLY AND STRAIGHTFORWARDLY THIS BOOK EMPHASIZES THE BASIC CONCEPT OF PHYSICS FOR ENGINEERING STUDENTS IT COVERS THE TOPICS LIKE PROPERTIES OF MATTER ACOUSTICS ULTRASONICS WITH THEIR INDUSTRIAL AND MEDICAL APPLICATIONS QUANTUM PHYSICS LASERS ALONG WITH THEIR INDUSTRIAL AND MEDICAL APPLICATIONS FIBRE OPTICS WITH ITS USES IN OPTICAL COMMUNICATION AND FIBRE OPTIC SENSORS WAVE OPTICS CRYSTAL PHYSICS AND IMPERFECTION IN SOLIDS THIS BOOK CONTAINS NUMEROUS SOLVED PROBLEMS SHORT AND DESCRIPTIVE TYPE QUESTIONS AND EXERCISE PROBLEMS IT WILL HELP STUDENTS ASSESS THEIR PROGRESS AND FAMILIARIZE THEM WITH THE TYPES OF QUESTIONS SET IN EXAMINATIONS NEW TO THIS EDITION NEW CHAPTERS ON WAVE MOTION IMPERFECTION IN SOLIDS NEW SECTIONS ON INADEQUACY OF CLASSICAL MECHANICS HEISENBERG S UNCERTAINTY PRINCIPLE PRINCIPLES OF SUPERPOSITION OF MATTER WAVES WAVE PACKETS THREE DIMENSIONAL POTENTIAL WELL PROBLEM FOTONIC PRESSURE SENSOR NOISE AND THEIR REMEDIES DESIGNED AS A TEXTBOOK FOR MATERIALS SCIENCE COURSE OFFERED IN UNDERGRADUATE ENGINEERING PROGRAMMES AS WELL AS IN M SC PHYSICS AND CHEMISTRY THE BOOK EXPOSES THE FUNDAMENTAL KNOWLEDGE OF CRYSTAL STRUCTURE CRYSTAL DEFECTS AND BONDING IN SOLIDS THE TEXT DEALS WITH INTRODUCTORY QUANTUM PHYSICS ELECTRICAL PROPERTIES OF MATERIALS BAND THEORY OF SOLIDS SEMICONDUCTING MATERIALS AND DIELECTRIC MATERIALS MOREOVER PROPERTIES OF SUPERCONDUCTING MATERIALS AS WELL AS OPTICAL PROPERTIES OF MATERIALS AND MAGNETIC PROPERTIES OF MATERIALS ARE EMPHASIZED IN AN EXPLICIT WAY ALSO WELL ORGANIZED PRESENTATION OF TOPICS USE OF SIMPLE LANGUAGE CHAPTER END SOLVED PROBLEMS SHORT AND DESCRIPTIVE TYPE QUESTIONS TOGETHER MAKE THE BOOK EFFECTIVE IN TERMS OF BUILDING A SOLID FOUNDATION OF THE SUBJECT SALIENT FEATURES DETAILED COVERAGE OF THE USES OF OPTICAL PROPERTIES OF MATERIALS LIKE CD DVD BLU RAY DISC AND HOLOGRAPHIC DATA STORAGE DEEP EXPLANATION OF THE SYNTHESIS AND PROPERTIES OF NANOMATERIALS IN DEPTH COVERAGE OF DISPLAY DEVICES FULL COVERAGE OF ADVANCED ENGINEERING MATERIALS LIKE SHAPE MEMORY ALLOYS METALLIC GLASSES NON LINEAR MATERIALS AND BIOMATERIALS THOROUGH COVERAGE OF NANOELECTRONICS AND NANODEVICES IN DEPTH DETAIL OF SYNTHESIS AND PROPERTIES OF CARBON NANOTUBES WIDE COVERAGE OF CHARACTERIZATION OF MATERIALS LIKE XRD ESCA SEM TEM STM ESR AND NMR THE BOOK IS REVISED SPECIFICALLY TO ADDRESS THE NEEDS OF THE LATEST COURSE CURRICULUM IN ENGINEERING CHEMISTRY FOR THE FIRST SEMESTER STUDENTS OF ALL BRANCHES OF ENGINEERING THE TOPICS COVERED IN THE BOOK ARE CUSTOMARILY TAUGHT IN SEVERAL UNIVERSITIES AND INSTITUTES THE BOOK EXPOSES STUDENTS TO FUNDAMENTAL KNOWLEDGE IN WATER TECHNOLOGY APPLICATIONS OF SURFACE CHEMISTRY AND CONCEPT OF NUCLEAR ENERGY AND ENERGY STORAGE DEVICES ALLOYS AND PHASE RULE ELECTROCHEMISTRY AND PRINCIPLE INVOLVED IN CORROSION AND ITS INHIBITION AND PROTECTIVE COATINGS ANALYSIS OF FUELS AND COMBUSTION KEY FEATURES SEVERAL WORKED OUT EXAMPLES TO HELP STUDENTS REINFORCE THEIR COMPREHENSION OF THEORY NUMEROUS SHORT AND DESCRIPTIVE QUESTIONS AT THE END OF EACH CHAPTER TO TEST AND FOSTER STUDENTS CONCEPTUAL UNDERSTANDING OF THE SUBJECT CHAPTER END PROBLEMS TO HELP STUDENTS BECOME PROFICIENT IN PROBLEM SOLVING TARGET AUDIENCE STUDENTS OF FIRST YEAR BE BTECH ALL BRANCHES THE CHAPTERS COVERED IN THIS BOOK INCLUDE EMERGING NEW TECHNIQUES ON SINTERING MAJOR EXPERTS IN THIS FIELD CONTRIBUTED TO THIS BOOK AND PRESENTED THEIR RESEARCH TOPICS COVERED IN THIS PUBLICATION INCLUDE SPARK PLASMA SINTERING MAGNETIC PULSED COMPACTION LOW TEMPERATURE CO FIRED CERAMIC TECHNOLOGY FOR THE PREPARATION OF 3 DIMESINAL CIRCUITS MICROWAVE SINTERING OF THERMISTOR CERAMICS SYNTHESIS OF BIO COMPATIBLE CERAMICS SINTERING OF RARE EARTH DOPED BISMUTH TITANATE CERAMICS PREPARED BY SOFT COMBUSTION NANOSTRUCTURED CERAMICS ALTERNATIVE SOLID STATE REACTION ROUTES YIELDING DENSIFIED BULK CERAMICS AND NANOPOWDERS SINTERING OF INTERMETALLIC SUPERCONDUCTORS SUCH AS MGB₂ IMPURITY DOPING IN LUMINESCENCE PHOSPHORS SYNTHESIZED USING SOFT TECHNIQUES ETC OTHER ADVANCED SINTERING TECHNIQUES SUCH AS RADIATION THERMAL SINTERING FOR THE MANUFACTURE OF THIN FILM SOLID OXIDE FUEL CELLS ARE ALSO DESCRIBED NANOSTRUCTURES FOR ANTIMICROBIAL THERAPY DISCUSSES THE PROS AND CONS OF THE USE OF NANOSTRUCTURED MATERIALS IN THE PREVENTION AND ERADICATION OF INFECTIONS HIGHLIGHTING THE EFFICIENT MICROBICIDAL EFFECT OF NANOPARTICLES AGAINST ANTIBIOTIC RESISTANT PATHOGENS AND BIOFILMS CONVENTIONAL ANTIBIOTICS ARE BECOMING INEFFECTIVE TOWARDS MICROORGANISMS DUE TO THEIR WIDESPREAD AND OFTEN INAPPROPRIATE USE AS A RESULT THE DEVELOPMENT OF ANTIBIOTIC RESISTANCE IN MICROORGANISMS IS INCREASINGLY BEING REPORTED NEW APPROACHES ARE NEEDED TO CONFRONT THE RISING ISSUES RELATED TO INFECTIOUS DISEASES THE MERGING OF BIOMATERIALS SUCH AS CHITOSAN CARRAGEENAN GELATIN POLY LACTIC CO GLYCOLIC ACID WITH NANOTECHNOLOGY PROVIDES A PROMISING PLATFORM FOR ANTIMICROBIAL THERAPY AS IT PROVIDES A CONTROLLED WAY TO TARGET CELLS AND INDUCE THE DESIRED RESPONSE WITHOUT THE ADVERSE EFFECTS COMMON TO MANY TRADITIONAL TREATMENTS NANOPARTICLES REPRESENT ONE OF THE MOST PROMISING THERAPEUTIC TREATMENTS TO THE PROBLEM CAUSED BY INFECTIOUS MICRO ORGANISMS RESISTANT TO TRADITIONAL THERAPIES THIS VOLUME DISCUSSES THIS PROMISE IN DETAIL AND ALSO DISCUSSES WHAT CHALLENGES THE GREATER USE OF NANOPARTICLES MIGHT POSE TO MEDICAL PROFESSIONALS THE UNIQUE PHYSIOCHEMICAL PROPERTIES OF NANOPARTICLES COMBINED WITH THEIR GROWTH INHIBITORY CAPACITY AGAINST MICROBES HAS LED TO THE UPSURGE IN THE RESEARCH ON NANOPARTICLES AS ANTIMICROBIALS THE IMPORTANCE OF BACTERICIDAL NANOBIMATERIALS STUDY WILL LIKELY INCREASE AS DEVELOPMENT OF RESISTANT STRAINS OF BACTERIA AGAINST MOST POTENT ANTIBIOTICS CONTINUES SHOWS HOW NANOANTIBIOTICS CAN BE USED TO MORE EFFECTIVELY TREAT DISEASE DISCUSSES THE ADVANTAGES AND ISSUES OF A VARIETY OF DIFFERENT NANOANTIBIOTICS ENABLING MEDICS TO SELECT WHICH BEST MEETS THEIR NEEDS PROVIDES A COGENT SUMMARY OF RECENT DEVELOPMENTS IN THIS FIELD ALLOWING READERS TO QUICKLY FAMILIARIZE THEMSELVES WITH THIS TOPIC AREA THIS BOOK DISCUSSES NEW TRENDS IN NANOTECHNOLOGY IT COVERS A WIDE RANGE OF TOPICS STARTING FROM APPLICATIONS OF NANOMATERIALS IN PEROVSKITE SOLAR CELLS PHARMACY AND DENTISTRY TO SELF ASSEMBLED GROWTH OF GAN NANOSTRUCTURES ON FLEXIBLE METAL FOILS BY LASER MOLECULAR BEAM EPITAXY IT ALSO INCLUDES OTHER INTERESTING TOPICS SUCH AS ADVANCEMENT IN CARBON NANOTUBES PROCESSING TECHNIQUES PURIFICATION AND INDUSTRIAL APPLICATIONS METAL DI CHALCOGENIDES FOR WASTE WATER TREATMENT AND RECENT ADVANCEMENT IN NANOSTRUCTURED BASED ELECTROCHEMICAL GENOSENSORS FOR PATHOGEN DETECTION AND MANY MORE THE BOOK WILL BE OF GREAT INTEREST TO RESEARCHERS PROFESSIONALS AND STUDENTS WORKING IN THE AREAS OF NANOMATERIALS AND NANOTECHNOLOGY NANOTECHNOLOGY PROGRESSES ITS CONCERTS AND SUITABILITY BY IMPROVING ITS EFFECTIVENESS SECURITY AND ALSO REDUCING THE IMPACT AND RISK VARIOUS CHAPTERS IN THIS BOOK ARE WRITTEN BY EMINENT SCIENTISTS AND PROMINENT RESEARCHERS IN THE FIELD OF NANOTECHNOLOGY ACROSS THE WORLD THIS BOOK IS FOCUSED TO PUT EMERGING TECHNIQUES FORWARD USING NANOPARTICLES FOR SAFE AND NUTRITIONAL FOOD PRODUCTION PROTECTING CROPS FROM PESTS INCREASING NUTRITIONAL VALUE AND PROVIDING SOLUTIONS FOR VARIOUS ENVIRONMENTAL ISSUES THE OUTCOME OF THIS BOOK CREATES A PATH FOR WIDE USAGE OF NANOPARTICLES IN FOOD AGRICULTURE AND THE ENVIRONMENT FIELDS THIS BOOK HAS CLEAR AND SIMPLE ILLUSTRATIONS TABLES AND CASE STUDIES TO UNDERSTAND THE CONTENT EVEN BY NON EXPERTS THIS BOOK ESPECIALLY DEALS WITH THE NANOTECHNOLOGY FOR CONTROLLING PLANT PATHOGENS FOOD PACKAGING AND PRESERVATION AGRICULTURAL PRODUCTIVITY WASTE WATER TREATMENT AND BIOENERGY PRODUCTION HENCE THIS BOOK CAN BE ADOPTED AND USED BY MANY RESEARCHERS AND ACADEMICIANS IN THE FIELDS OF FOOD AGRICULTURE ENVIRONMENT AND NANOTECHNOLOGY FOR CATERING THE NEEDS OF SUSTAINABLE FUTURE THE SALIENT FEATURES OF THIS BOOK ARE DESCRIBES NANOTECHNOLOGY AS AN INTERDISCIPLINARY AND EMERGING FIELD IN LIFE SCIENCES USEFUL FOR RESEARCHERS IN THE CUTTING EDGE LIFE SCIENCE RELATED FIELDS OF NANOSCIENCE NANOBIOLOGY AND NANOTECHNOLOGY DEAL WITH VARIOUS PROBLEMS IN FOOD AGRICULTURE AND ENVIRONMENTAL SECTOR FOR SUSTAINABLE SOLUTIONS THROUGH THE APPLICATION OF NANOTECHNOLOGY SUPPORTED WITH ILLUSTRATIONS IN COLOR TABLES AND CASE STUDIES WHEREVER APPLICABLE AND CONTRIBUTED AND WELL WRITTEN BY NANOTECHNOLOGY EXPERTS FROM ACROSS VARIOUS DISCIPLINES

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