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PHYSICS OF SEMICONDUCTOR DEVICES RENEWABLE AND ALTERNATIVE ENERGY: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS A GUIDE TO MONTE CARLO SIMULATIONS IN STATISTICAL PHYSICS OPTOELECTRONIC ORGANIC-INORGANIC SEMICONDUCTOR HETEROJUNCTIONS ORGANIC AND HYBRID SOLAR CELLS SUSTAINABLE NANOSYSTEMS DEVELOPMENT, PROPERTIES, AND APPLICATIONS NANOSCIENCE NANOSCIENCE ADVANCES IN NANOTECHNOLOGY RESEARCH AND APPLICATION: 2012 EDITION RECENT ADVANCES IN PHOTOVOLTAICS PHYSICS BRIEFS ADVANCES IN COMPUTER, COMMUNICATION AND CONTROL HANDBOOK OF UNIVERSITIES DEFECTS IN TWO-DIMENSIONAL MATERIALS [?] [?] [?] [?] [?] [?] [?] [?] INTERNATIONAL CONFERENCE ON NUCLEAR REACTION MECHANISM, JANUARY 3-9, 1989, SAHA INSTITUTE OF NUCLEAR PHYSICS, VARIABLE ENERGY CYCLOTRON CENTRE, CALCUTTA ANNUAL REPORT [?] [?] [?] [?] [?] [?]

PHYSICS OF SEMICONDUCTOR DEVICES

2013-11-27

THE PURPOSE OF THIS WORKSHOP IS TO SPREAD THE VAST AMOUNT OF INFORMATION AVAILABLE ON SEMICONDUCTOR PHYSICS TO EVERY POSSIBLE FIELD THROUGHOUT THE SCIENTIFIC COMMUNITY AS A RESULT THE LATEST FINDINGS RESEARCH AND DISCOVERIES CAN BE QUICKLY DISSEMINATED THIS WORKSHOP PROVIDES ALL PARTICIPATING RESEARCH GROUPS WITH AN EXCELLENT PLATFORM FOR INTERACTION AND COLLABORATION WITH OTHER MEMBERS OF THEIR RESPECTIVE SCIENTIFIC COMMUNITY THIS WORKSHOP S TECHNICAL SESSIONS INCLUDE VARIOUS CURRENT AND SIGNIFICANT TOPICS FOR APPLICATIONS AND SCIENTIFIC DEVELOPMENTS INCLUDING OPTOELECTRONICS VLSI ULSI TECHNOLOGY PHOTOVOLTAICS MEMS SENSORS DEVICE MODELING AND SIMULATION HIGH FREQUENCY POWER DEVICES NANOTECHNOLOGY AND EMERGING AREAS ORGANIC ELECTRONICS DISPLAYS AND LIGHTING MANY EMINENT SCIENTISTS FROM VARIOUS NATIONAL AND INTERNATIONAL ORGANIZATIONS ARE ACTIVELY PARTICIPATING WITH THEIR LATEST RESEARCH WORKS AND ALSO EQUALLY SUPPORTING THIS MEGA EVENT BY JOINING THE VARIOUS ORGANIZING COMMITTEES

RENEWABLE AND ALTERNATIVE ENERGY: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

2016-10-19

AS THE HUMAN POPULATION EXPANDS AND NATURAL RESOURCES BECOME DEPLETED IT BECOMES NECESSARY TO EXPLORE OTHER SOURCES FOR ENERGY CONSUMPTION AND USAGE RENEWABLE AND ALTERNATIVE ENERGY CONCEPTS METHODOLOGIES TOOLS AND APPLICATIONS PROVIDES A COMPREHENSIVE OVERVIEW OF EMERGING PERSPECTIVES AND INNOVATIONS FOR ALTERNATIVE ENERGY SOURCES HIGHLIGHTING RELEVANT CONCEPTS ON ENERGY EFFICIENCY CURRENT TECHNOLOGIES AND ONGOING INDUSTRY TRENDS THIS IS AN IDEAL REFERENCE SOURCE FOR ACADEMICS PRACTITIONERS PROFESSIONALS AND UPPER LEVEL STUDENTS INTERESTED IN THE LATEST RESEARCH ON RENEWABLE ENERGY

A GUIDE TO MONTE CARLO SIMULATIONS IN STATISTICAL PHYSICS

2021-07-29

UNIQUE COVERAGE OF MONTE CARLO METHODS FOR BOTH CONTINUUM AND LATTICE SYSTEMS EXPLAINING PARTICULARLY ANALYSIS OF PHASE TRANSITIONS

OPTOELECTRONIC ORGANIC-INORGANIC SEMICONDUCTOR HETEROJUNCTIONS

2021-01-19

OPTOELECTRONIC ORGANIC INORGANIC SEMICONDUCTOR HETEROJUNCTIONS SUMMARIZES ADVANCES IN THE DEVELOPMENT OF ORGANIC INORGANIC SEMICONDUCTOR HETEROJUNCTIONS POINTS OUT CHALLENGES AND POSSIBLE SOLUTIONS FOR MATERIAL DEVICE DESIGN AND EVALUATES PROSPECTS FOR

COMMERCIAL APPLICATIONS INTRODUCES THE CONCEPT AND BASIC MECHANISM OF SEMICONDUCTOR HETEROJUNCTIONS DESCRIBES A SERIES OF ORGANIC INORGANIC SEMICONDUCTOR HETEROJUNCTIONS WITH DESIRABLE ELECTRICAL AND OPTICAL PROPERTIES FOR OPTOELECTRONIC DEVICES DISCUSSES TYPICAL DEVICES SUCH AS SOLAR CELLS PHOTO DETECTORS AND OPTOELECTRONIC MEMORIES OUTLINES THE MATERIALS AND DEVICE CHALLENGES AS WELL AS POSSIBLE STRATEGIES TO PROMOTE THE COMMERCIAL TRANSLATION OF SEMICONDUCTOR HETEROJUNCTIONS BASED OPTOELECTRONIC DEVICES AIMED AT GRADUATE STUDENTS AND RESEARCHERS WORKING IN SOLID STATE MATERIALS AND ELECTRONICS THIS BOOK OFFERS A COMPREHENSIVE YET ACCESSIBLE VIEW OF THE STATE OF THE ART AND FUTURE DIRECTIONS

ORGANIC AND HYBRID SOLAR CELLS

2014-11-25

THIS BOOK DELIVERS A COMPREHENSIVE EVALUATION OF ORGANIC AND HYBRID SOLAR CELLS AND IDENTIFIES THEIR FUNDAMENTAL PRINCIPLES AND NUMEROUS APPLICATIONS GREAT ATTENTION IS GIVEN TO THE CHARGE TRANSPORT MECHANISM DONOR AND ACCEPTOR MATERIALS INTERFACIAL MATERIALS ALTERNATIVE ELECTRODES DEVICE ENGINEERING AND PHYSICS AND DEVICE STABILITY THE AUTHORS PROVIDE AN INDUSTRIAL PERSPECTIVE ON THE FUTURE OF PHOTOVOLTAIC TECHNOLOGIES

SUSTAINABLE NANOSYSTEMS DEVELOPMENT, PROPERTIES, AND APPLICATIONS

2016-08-01

GLOBAL ECONOMIC DEMANDS AND POPULATION SURGES HAVE LED TO DWINDLING RESOURCES AND PROBLEMATIC ENVIRONMENTAL ISSUES AS THE CLIMATE AND ITS NATURAL RESOURCES CONTINUE TO STRUGGLE IT HAS BECOME NECESSARY TO RESEARCH AND EMPLOY NEW FORMS OF SUSTAINABLE TECHNOLOGY TO HELP MEET THE GROWING DEMAND SUSTAINABLE NANOSYSTEMS DEVELOPMENT PROPERTIES AND APPLICATIONS FEATURES EMERGENT RESEARCH AND THEORETICAL CONCEPTS IN THE AREAS OF NANOTECHNOLOGY PHOTOVOLTAICS ELECTROCHEMISTRY AND MATERIALS SCIENCE AS WELL AS WITHIN THE PHYSICAL AND ENVIRONMENTAL SCIENCES HIGHLIGHTING PROGRESSIVE APPROACHES AND UTILIZATION TECHNIQUES THIS PUBLICATION IS A CRITICAL REFERENCE SOURCE FOR RESEARCHERS ENGINEERS STUDENTS SCIENTISTS AND ACADEMICIANS INTERESTED IN THE APPLICATION OF SUSTAINABLE NANOTECHNOLOGY

NANOSCIENCE

2013-11-28

THE FIELD OF NANOSCIENCE CONTINUES TO GROW AT AN IMPRESSIVE RATE WITH OVER 10 000 NEW ARTICLES A YEAR CONTRIBUTING TO A LITERATURE OF MORE THAN HALF A MILLION CITATIONS SUCH A VAST LANDSCAPE OF MATERIAL REQUIRES CAREFUL SEARCHING TO DISCOVER THE MOST IMPORTANT DISCOVERIES THE INTRODUCTION OF THE NEWEST SPECIALIST PERIODICAL REPORT BY THE ROYAL SOCIETY OF CHEMISTRY NANOSCIENCE PROVIDES A CRITICAL AND COMPREHENSIVE ASSESSMENT OF THE MOST RECENT RESEARCH AND OPINION WITH CONTRIBUTIONS FROM ACROSS THE GLOBE THIS NEW SERIES ENSURES READERS WILL BE WELL VERSED IN THE LATEST RESEARCH AND METHODOLOGIES SOME

CHAPTERS WILL ALSO PRESENT A SPECIAL FOCUS IN EMERGING COUNTRIES WORKING IN THE FIELD SUCH AS INDIA AND CHINA ANYONE PRACTICING IN ANY NANO ALLIED FIELD OR WISHING TO ENTER THE NANO WORLD WILL BENEFIT FROM THE COMPREHENSIVE RESOURCE WHICH WILL BE PUBLISHED ANNUALLY

NANOSCIENCE

2013-12-02

THIS VOLUME WILL PRESENT CRITICAL AND COMPREHENSIVE REVIEWS EXAMINING THE LATEST RESEARCH AND DEVELOPMENTS IN NANOSCIENCE IN ACCESSIBLE ARTICLES QUANTUM DOT SYNTHESIS SOFT LITHOGRAPHY AND GRAPHENE WILL FEATURE IN THE DEBUT VOLUME ALONG WITH PERSPECTIVES ON RESEARCH IN CHINA AND INDIA

ADVANCES IN NANOTECHNOLOGY RESEARCH AND APPLICATION: 2012 EDITION

2012-12-26

ADVANCES IN NANOTECHNOLOGY RESEARCH AND APPLICATION 2012 EDITION IS A SCHOLARLY EDITIONS EBOOK THAT DELIVERS TIMELY AUTHORITATIVE AND COMPREHENSIVE INFORMATION ABOUT NANOTECHNOLOGY THE EDITORS HAVE BUILT ADVANCES IN NANOTECHNOLOGY RESEARCH AND APPLICATION 2012 EDITION ON THE VAST INFORMATION DATABASES OF SCHOLARLYNEWS YOU CAN EXPECT THE INFORMATION ABOUT NANOTECHNOLOGY IN THIS EBOOK TO BE DEEPER THAN WHAT YOU CAN ACCESS ANYWHERE ELSE AS WELL AS CONSISTENTLY RELIABLE AUTHORITATIVE INFORMED AND RELEVANT THE CONTENT OF ADVANCES IN NANOTECHNOLOGY RESEARCH AND APPLICATION 2012 EDITION HAS BEEN PRODUCED BY THE WORLD S LEADING SCIENTISTS ENGINEERS ANALYSTS RESEARCH INSTITUTIONS AND COMPANIES ALL OF THE CONTENT IS FROM PEER REVIEWED SOURCES AND ALL OF IT IS WRITTEN ASSEMBLED AND EDITED BY THE EDITORS AT SCHOLARLY EDITIONS AND AVAILABLE EXCLUSIVELY FROM US YOU NOW HAVE A SOURCE YOU CAN CITE WITH AUTHORITY CONFIDENCE AND CREDIBILITY MORE INFORMATION IS AVAILABLE AT SCHOLARLY EDITIONS COM

RECENT ADVANCES IN PHOTOVOLTAICS

2017-10-01

THE EVER GROWING DEMAND FOR CLEAN ENERGY POTENTIALLY CAN BE MET BY SOLAR TO ELECTRICAL ENERGY CONVERSION THIS BOOK ON RECENT ADVANCES IN PHOTOVOLTAICS PRESENTS A DETAILED OVERVIEW OF RECENT RESEARCH AND DEVELOPMENTS IN THE FIELD OF PHOTOVOLTAICS AND SOLAR CELLS IT STARTS WITH THE BASIC THEORY AND GRADUAL PROGRESS IN THE FIELD OF PHOTOVOLTAICS AND VARIOUS GENERATIONS OF SOLAR CELLS THE SEARCH FOR NEW MATERIALS AND OR NEW STRUCTURES SUCH AS MULTI JUNCTIONS NANOSTRUCTURES PHOTOELECTROCHEMICAL CELLS ORGANIC SOLAR CELLS ETC FOR IMPROVED PERFORMANCE IS DISCUSSED THE EXPERIMENTAL INVESTIGATIONS ON CERTAIN MATERIALS AND MODELLING FOR BETTER RESULTS ARE ALSO DESCRIBED IN THE BOOK PHOTOVOLTAICS SOLAR CELLS MULTI JUNCTIONS SOLAR CELLS NANOSTRUCTURED SOLAR CELLS PHOTOELECTROCHEMICAL SOLAR CELLS ORGANIC SOLAR CELLS POLYMER SOLAR CELLS

PHYSICS BRIEFS

1985-07

THE BOOK DISCUSSES THE RECENT RESEARCH TRENDS IN VARIOUS SUB DOMAINS OF COMPUTING COMMUNICATION AND CONTROL IT INCLUDES RESEARCH PAPERS PRESENTED AT THE FIRST INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN ENGINEERING AND SCIENCE FOCUSING ON AREAS SUCH AS OPTIMIZATION TECHNIQUES GAME THEORY SUPPLY CHAIN GREEN COMPUTING 5G NETWORKS INTERNET OF THINGS SOCIAL NETWORKS POWER ELECTRONICS AND ROBOTICS IT IS A USEFUL RESOURCE FOR ACADEMICS AND RESEARCHERS ALIKE

ADVANCES IN COMPUTER, COMMUNICATION AND CONTROL

2019-02-14

THE MOST AUTHENTIC SOURCE OF INFORMATION ON HIGHER EDUCATION IN INDIA THE HANDBOOK OF UNIVERSITIES DEEMED UNIVERSITIES COLLEGES PRIVATE UNIVERSITIES AND PROMINENT EDUCATIONAL RESEARCH INSTITUTIONS PROVIDES MUCH NEEDED INFORMATION ON DEGREE AND DIPLOMA AWARDING UNIVERSITIES AND INSTITUTIONS OF NATIONAL IMPORTANCE THAT IMPART GENERAL TECHNICAL AND PROFESSIONAL EDUCATION IN INDIA ALTHOUGH ANOTHER DIRECTORY OF SIMILAR NATURE IS AVAILABLE IN THE MARKET THE DISTINCT FEATURE OF THE PRESENT HANDBOOK THAT MAKES IT ONE OF ITS KIND IS THAT IT ALSO INCLUDES ENTRIES AND DETAILS OF THE PRIVATE UNIVERSITIES FUNCTIONING ACROSS THE COUNTRY IN THIS HANDBOOK THE UNIVERSITIES HAVE BEEN LISTED IN AN ALPHABETICAL ORDER THIS FACILITATES EASY LOCATION OF THEIR NAMES IN ADDITION TO THE BRIEF HISTORY OF THESE UNIVERSITIES THE PRESENT HANDBOOK PROVIDES THE NAMES OF THEIR VICE CHANCELLOR PROFESSORS AND READERS AS WELL AS THEIR FACULTIES AND DEPARTMENTS IT ALSO ACQUAINTS THE READERS WITH THE VARIOUS COURSES OF STUDIES OFFERED BY EACH UNIVERSITY IT IS HOPED THAT THE HANDBOOK IN ITS PRESENT FORM WILL PROVE IMMENSELY HELPFUL TO THE ASPIRING STUDENTS IN CHOOSING THE BEST EDUCATIONAL INSTITUTION FOR THEIR CAREER ENHANCEMENT IN ADDITION IT WILL ALSO PROVE VERY USEFUL FOR THE PUBLISHERS IN MAILING THEIR PUBLICITY MATERIALS EVEN THE SUPPLIERS OF EQUIPMENT AND SERVICES REQUIRED BY THESE EDUCATIONAL INSTITUTIONS WILL FIND IT HIGHLY VALUABLE

HANDBOOK OF UNIVERSITIES

2006

DEFECTS IN TWO DIMENSIONAL MATERIALS ADDRESSES THE FUNDAMENTAL PHYSICS AND CHEMISTRY OF DEFECTS IN 2D MATERIALS AND THEIR EFFECTS ON PHYSICAL ELECTRICAL AND OPTICAL PROPERTIES THE BOOK EXPLORES 2D MATERIALS SUCH AS GRAPHENE HEXAGONAL BORON NITRIDE H BN AND TRANSITION METAL DICHALCOGENIDES TMD THIS KNOWLEDGE WILL ENABLE SCIENTISTS AND ENGINEERS TO TUNE 2D MATERIALS PROPERTIES TO MEET SPECIFIC APPLICATION REQUIREMENTS THE BOOK REVIEWS THE TECHNIQUES TO CHARACTERIZE 2D MATERIAL DEFECTS AND COMPARES THE DEFECTS PRESENT IN THE VARIOUS 2D MATERIALS E G GRAPHENE H BN TMDS PHOSPHORENE SILICENE ETC AS TWO DIMENSIONAL MATERIALS RESEARCH AND DEVELOPMENT IS A FAST GROWING FIELD THAT COULD LEAD TO MANY INDUSTRIAL APPLICATIONS THE PRIMARY OBJECTIVE OF THIS BOOK IS TO REVIEW DISCUSS AND PRESENT OPPORTUNITIES IN CONTROLLING DEFECTS IN THESE MATERIALS TO IMPROVE DEVICE PERFORMANCE IN

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