ENVIRONMENTAL SCIENCE A GLOBAL CONCERN 13TH EDITION

ENVIRONMENTAL SCIENCE A GLOBAL CONCERN 13TH EDITION ENVIRONMENTAL SCIENCE A GLOBAL CONCERN 13TH EDITION STRUCTURE THIS TEXTBOOK ENVIRONMENTAL SCIENCE A GLOBAL CONCERN 13TH EDITION PROVIDES A COMPREHENSIVE AND ENGAGING INTRODUCTION TO THE FIELD OF ENVIRONMENTAL SCIENCE WITH A STRONG EMPHASIS ON THE INTERCONNECTEDNESS OF GLOBAL ENVIRONMENTAL ISSUES THE BOOK IS STRUCTURED TO GUIDE STUDENTS THROUGH A PROGRESSIVELY DEEPER UNDERSTANDING OF THE FIELD ENCOMPASSING BOTH THE SCIENTIFIC PRINCIPLES AND THE SOCIETAL IMPLICATIONS OF ENVIRONMENTAL CHALLENGES PART 1 FOUNDATIONS OF ENVIRONMENTAL SCIENCE CHAPTER 1 TO ENVIRONMENTAL SCIENCE THIS CHAPTER LAYS THE GROUNDWORK BY DEFINING ENVIRONMENTAL SCIENCE OUTLINING ITS KEY COMPONENTS AND EXPLORING THE HISTORY OF ENVIRONMENTALISM IT ALSO HIGHLIGHTS THE IMPORTANCE OF SCIENTIFIC LITERACY AND CRITICAL THINKING IN ADDRESSING ENVIRONMENTAL PROBLEMS CHAPTER 2 ENVIRONMENTAL SYSTEMS THIS CHAPTER DELVES INTO THE FUNDAMENTAL PRINCIPLES OF FARTH SYSTEMS FOCUSING ON 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INTERCONNECTEDNESS OF ENVIRONMENTAL ISSUES AND THE NEED FOR INTERNATIONAL COOPERATION TO ADDRESS THEM ENGAGING WRITING STYLE THE BOOK IS WRITTEN IN A CLEAR CONCISE AND ENGAGING STYLE MAKING COMPLEX CONCEPTS ACCESSIBLE TO STUDENTS REAL WORLD APPLICATIONS EACH CHAPTER INCLUDES REAL WORLD EXAMPLES AND CASE STUDIES SHOWCASING THE RELEVANCE OF ENVIRONMENTAL SCIENCE TO EVERYDAY LIFE VISUAL LEARNING THE BOOK IS RICH WITH VISUALS INCLUDING PHOTOGRAPHS MAPS DIAGRAMS AND GRAPHS TO ENHANCE STUDENT UNDERSTANDING CRITICAL THINKING EXERCISES AND DISCUSSION QUESTIONS ENCOURAGING STUDENTS TO ENGAGE WITH THE MATERIAL AND DEVELOP THEIR OWN PERSPECTIVES TARGET AUDIENCE THIS TEXTBOOK IS DESIGNED FOR INTRODUCTORY COURSES IN ENVIRONMENTAL SCIENCE FOR UNDERGRADUATE STUDENTS IT IS SUITABLE FOR A BROAD RANGE OF STUDENTS INCLUDING THOSE MAJORING IN ENVIRONMENTAL STUDIES BIOLOGY CHEMISTRY GEOGRAPHY AND RELATED FIELDS OVERALL ENVIRONMENTAL SCIENCE A GLOBAL CONCERN 13th Edition aims to Equip STUDENTS WITH THE KNOWLEDGE SKILLS AND CRITICAL THINKING ABILITIES NEEDED TO UNDERSTAND AND ADDRESS THE COMPLEX ENVIRONMENTAL CHALLENGES FACING OUR WORLD

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ENVIRONMENTAL SCIENCE A GLOBAL CONCERN IS A COMPREHENSIVE PRESENTATION OF ENVIRONMENTAL SCIENCE FOR NON SCIENCE MAJORS WHICH EMPHASIZES CRITICAL THINKING ENVIRONMENTAL RESPONSIBILITY AND GLOBAL AWARENESS THIS BOOK IS INTENDED FOR USE IN A ONE OR TWO SEMESTER COURSE IN ENVIRONMENTAL SCIENCE HUMAN ECOLOGY OR ENVIRONMENTAL STUDIES AT THE COLLEGE OR ADVANCED PLACEMENT HIGH SCHOOL LEVEL AS PRACTICING SCIENTISTS AND EDUCATORS THE CUNNINGHAM AUTHOR TEAM BRINGS DECADES OF EXPERIENCE IN THE CLASSROOM IN THE PRACTICE OF SCIENCE AND IN CIVIC ENGAGEMENT THIS EXPERIENCE HELPS GIVE STUDENTS A CLEAR SENSE OF WHAT ENVIRONMENTAL SCIENCE IS AND WHY IT MATTERS IN THIS EXCITING NEW 13th EDITION ENVIRONMENTAL SCIENCE A GLOBAL CONCERN PROVIDES READERS WITH AN UP TO DATE INTRODUCTORY GLOBAL VIEW OF ESSENTIAL THEMES IN ENVIRONMENTAL SCIENCE THE AUTHORS BALANCE EVIDENCE OF SERIOUS ENVIRONMENTAL CHAPTERS WITH IDEAS ABOUT WHAT WE CAN DO TO OVERCOME THEM AN ENTIRE CHAPTER FOCUSES ON ECOLOGICAL RESTORATION ONE OF THE MOST IMPORTANT ASPECTS OF ECOLOGY TODAY CASE STUDIES IN MOST CHAPTERS SHOW EXAMPLES OF REAL PROGRESS AND WHAT CAN YOU DO LISTS GIVE STUDENTS IDEAS FOR CONTRIBUTING TO SOLUTIONS

IN RECENT DECADES CLAIMS HAVE INCREASINGLY BEEN MADE ON TRANSNATIONAL CORPORATIONS TO TAKE RESPONSIBILITY FOR THE PROMOTION AND PROTECTION OF HUMAN AND LABOUR RIGHTS IN COUNTRIES WHERE THEY OPERATE THIS BEHAVIOURAL OBLIGATION RESULTS FROM THE PERSISTENT ADVOCACY OF NON GOVERNMENTAL ORGANIZATIONS AND IS COMMONLY KNOWN AS CORPORATE SOCIAL RESPONSIBILITY CSR DRIVEN BY THE THEORY OF THE NORM LIFE CYCLE MODEL THE BOOK USES AN INTERESTING RANGE OF CASE STUDIES INCLUDING NIKE AND THE ANTI APARTHEID MOVEMENT TO TRACE THE DEVELOPMENT OF CSR AS AN INTERNATIONAL NORM THE DEVELOPMENT IS EXAMINED THROUGH FIVE SELECTED NON GOVERNMENTAL ORGANIZATIONS CLEAN CLOTHES CAMPAIGN FAIRTRADE LABELLING ORGANIZATIONS INTERNATIONAL GLOBAL EXCHANGE INTERNATIONAL BUSINESS LEADERS FORUM AND THE INTERNATIONAL LABOR RIGHTS FUND THE BOOK MAKES A LUCID CONTRIBUTION TO AN EMERGING SCHOLARSHIP AND WILL INTEREST RESEARCHERS AND PRACTITIONERS INVOLVED IN ISSUES OF GLOBAL GOVERNANCE AND GLOBAL CIVIL SOCIETY

DEALS WITH RURAL STRUGGLES PRIMARILY IN SUB SAHARAN AFRICA BUT ALSO IN LATIN AMERICA AND TO A LESSER EXTENT INDIA AND SWEDEN

SCIENCE TECHNOLOGY AND GLOBAL PROBLEMS DOCUMENTS THE PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON TRENDS AND PERSPECTIVES IN DEVELOPMENT OF SCIENCE AND TECHNOLOGY AND THEIR IMPACT ON THE SOLUTION OF CONTEMPORARY GLOBAL PROBLEMS HELD IN TALLINN USSR ON JANUARY 8 12 1979 THIS COMPILATION DISCUSSES THE CHARACTER OF GLOBAL PROBLEMS IN THE YEAR 2000 PROSPECTS OF DEVELOPMENT OF LEADING BRANCHES OF SCIENCE AND TECHNOLOGY AND ITS CAPACITY TO SOLVE GLOBAL PROBLEMS THE TOPICS INCLUDE GLOBAL PROBLEMS IN THE YEAR 2000 AND THE ROLE OF SCIENCE IN THEIR SOLUTION SCIENCE AND TECHNOLOGY AS FACTORS FOR FUTURE GLOBAL DEVELOPMENT ROAD TO SCIENTIFIC TECHNOLOGICAL CULTURE AND RESPONSIBILITY OF SCIENTISTS IN THE PERIOD OF CRISIS THE ENERGY SITUATION IN THE WORLD PROBLEMS AND PROSPECTS MATHEMATICS AND PROGRESS IN SCIENCE AND TECHNOLOGY ROLE OF INFORMATION AND COMMUNICATION IN THE SOLUTION OF GLOBAL PROBLEMS AND GLOBAL PUBLIC HEALTH PROBLEMS AND WAYS OF RESOLVING THEM ARE ALSO DELIBERATED IN THIS TEXT THIS BOOK IS A USEFUL SOURCE FOR STUDENTS AND RESEARCHERS CONDUCTING WORK ON THE DEVELOPMENT OF SCIENCE AND TECHNOLOGY IN SOLVING GLOBAL PROBLEMS

THIS BOOK IS INTENDED FOR USE IN A ONE OR TWO SEMESTER COURSE IN ENVIRONMENTAL SCIENCE HUMAN ECOLOGY OR ENVIRONMENTAL STUDIES AT THE COLLEGE OR ADVANCED PLACEMENT HIGH SCHOOL LEVEL BECAUSE MOST STUDENTS WHO WILL USE THIS BOOK ARE FRESHMAN OR SOPHOMORE NONSCIENCE MAJORS THE AUTHORS HAVE TRIED TO MAKE THE TEXT READABLE AND ACCESSIBLE WITHOUT TECHNICAL JARGON OR A PRESUMPTION OF PRIOR SCIENCE BACKGROUND AT THE SAME TIME ENOUGH DATA AND DEPTH ARE PRESENTED TO MAKE THIS BOOK SUITABLE FOR MANY UPPER DIVISION CLASSES AND A VALUABLE RESOURCE FOR STUDENTS WHO WILL KEEP IT IN THEIR PERSONAL LIBRARIES AFTER THEIR FORMAL STUDIES ARE COMPLETED THE GOAL OF THIS BOOK IS TO PROVIDE AN UP TO DATE INTRODUCTORY VIEW OF ESSENTIAL THEMES IN ENVIRONMENTAL SCIENCE ALONG WITH EMPHASIS ON DETAILS AND CASE STUDIES THAT WILL HELP STUDENTS PROCESS AND RETAIN THE GENERAL PRINCIPLES

ANTHOLOGY FROM THE YEAR 2020 IN THE SUBJECT ENVIRONMENTAL SCIENCES LANGUAGE ENGLISH ABSTRACT CONTAMINATION OF THE WORLD'S OCEANS DUE TO MARINE DEBRIS ESPECIALLY HUMAN ENGINEERED MATERIALS IS A GLOBAL PROBLEM AND A CHALLENGE FOR MANY COUNTRIES ESPECIALLY THOSE WITH COASTAL COMMUNITIES MARINE DEBRIS HAS ENTERED A NEW CHAPTER SINCE THE INTERNATIONAL AND NATIONAL CONFERENCES WERE HELD SINCE THE 1950s THE UN UNITED NATION IN THE ENVIRONMENTAL SECTOR IS KNOWN TO EXPLICITLY STATE THAT MARINE DEBRIS HAS DAMAGED THE SEAS AN OCEANS FOR A LONG TIME AND HAS AN IMPACT ON ALL AREAS OF LIFE CURRENTLY MORE THAN 1 2 TRILLION PLASTIC BAGS ARE USED EVERY YEAR AROUND THE WORLD FOR DAILY NEEDS ABOUT 2 MILLION PLASTIC BAGS ARE USED EVERY MINUTE WORLDWIDE AND AROUND 32 MILLION TONS OF PLASTIC WASTE ARE GENERATED ANNUALLY REPRESENTING 12 7 OF TOTAL SOLID WASTE EVERY RESIDENT IN INDONESIA PRODUCES AN AVERAGE OF 800 PLASTIC BAGS PER YEAR THIS MEANS THAT THE USE OF PLASTIC HAS BECOME A NECESSITY FOR HUMANS HOWEVER IT IS NOT BALANCED WITH A REDUCTION OR HOW IT CAN BE REUSED POOR WASTE MANAGEMENT ESPECIALLY IN DEVELOPING COUNTRIES IS ONE PROBLEM CHALLENGE THAT MUST BE ADDRESSED BY THE GOVERNMENT ALMOST ALL DEVELOPING COUNTRIES DO NOT HAVE COMPLETE INFRASTRUCTURES AND LEGAL REGULATIONS FOR WASTE MANAGEMENT FOR EXAMPLE IN A COUNTRY LIKE INDONESIA THE RECYCLING RATE OF WASTE IS LOW AT UNDER 50 THE AWARENESS NOT TO LITTER IS ALSO A CAUSE FOR CONCERN GARBAGE IS EASILY FOUND IN GUTTERS ROADS RIVERS AND COASTS

ENVIRONMENTAL SCIENCE FOCUSES ON UNDERSTANDING CHALLENGES THAT AFFECT OUR LIVES AND ON FINDING SOLUTIONS TO THOSE CHALLENGES YOUR DECISION TO STUDY ENVIRONMENTAL SCIENCE IS AN IMPORTANT STEP THIS FIELD CAN HELP YOU FIND ANSWERS TO SOME OF THE MOST IMPORTANT PROBLEMS FACING US TODAY ENVIRONMENTAL SCIENCE IS AN INTEGRATIVE FIELD IT DRAWS ON DIVERSE KNOWLEDGE BASES AND SKILLS TO ADDRESS ISSUES FOR EXAMPLE PRESERVING HEALTHY ECOSYSTEMS DEPENDS ON STRATEGIES SUCH AS REDUCING GREENHOUSE GAS EMISSIONS DEVELOPING RENEWABLE ENERGY SYSTEMS REDUCING POLLUTION IMPROVING SOCIAL AND ENVIRONMENTAL JUSTICE IMPROVING SUSTAINABLE FARMING SYSTEMS AND REDUCING RESOURCE CONSUMPTION

FIFTEEN ESSAYS ADDRESS SUBJECTS RANGING FROM THE HISTORY OF FEMINIST ETHICS TO THE LOGIC OF PLURALIST FEMINISM AND PRESENT FEMINIST PERSPECTIVES ON SUCH TOPICS AS TERRORISM BITTERNESS WOMEN TRUSTING OTHER WOMEN AND SURVIVAL AND ETHICS PAPER EDITION UNSEEN 14 95 ANNOTATION COPYRIGHTED BY BOOK NEWS INC PORTLAND OR

GLOBALIZATION WAS THE BUZZWORD OF THE LAST DECADE ADVANCES IN COMMUNICATION TECHNOLOGY COMPUTING AND AIR TRAVEL CLEARLY HAVE A SIGNIFICANCE ON PLANNING AN ACTIVITY WHICH HAS BEEN

CONCERNED WITH CONTROLLING AND SHAPING THE USE OF SPACE THIS OUTSTANDING VOLUME BRINGS TOGETHER CONTRIBUTIONS FROM ACROSS THE WORLD IN ORDER TO ADDRESS SOME OF THE QUESTIONS THAT ARISE FROM SUCH GLOBAL CHANGES

ONCE PATRONIZED PRIMARILY BY THE COUNTERCULTURE AND THE HEALTH FOOD ESTABLISHMENT THE ORGANIC FOOD INDUSTRY TODAY IS A MULTI BILLION DOLLAR BUSINESS DRIVEN BY EVER GROWING CONSUMER DEMAND FOR SAFE FOOD AND GREATER PUBLIC AWARENESS OF ECOLOGICAL ISSUES ASSUMED BY MANY TO BE A RECENT PHENOMENON THAT INDUSTRY OWES MUCH TO AGRICULTURAL INNOVATIONS THAT GO BACK TO THE DUST BOWL ERA THIS BOOK EXPLORES THE ROOTS AND BRANCHES OF ALTERNATIVE AGRICULTURAL IDEAS IN TWENTIETH CENTURY AMERICA SHOWING HOW ECOLOGICAL THOUGHT HAS CHALLENGED AND CHANGED AGRICULTURAL THEORY PRACTICE AND POLICY FROM THE 1930S TO THE PRESENT IT INTRODUCES US TO THE PEOPLE AND INSTITUTIONS WHO FORGED ALTERNATIVES TO INDUSTRIALIZED AGRICULTURE THROUGH A DEEP CONCERN FOR THE ENDURING FERTILITY OF THE SOIL A PASSIONATE COMMITMENT TO HUMAN HEALTH AND A STRONG ADVOCACY OF ECONOMIC JUSTICE FOR FARMERS RANDAL BEEMAN AND JAMES PRITCHARD SHOW THAT AGRICULTURAL ISSUES WERE CENTRAL TO THE RISE OF THE ENVIRONMENTAL MOVEMENT IN THE UNITED STATES AS FAMILY FARMS FAILED DURING THE DEPRESSION A NEW KIND OF AGRICULTURE WAS CHAMPIONED BASED ON THE HOLISTIC APPROACH TAUGHT BY THE EMERGING SCIENCE OF ECOLOGY ECOLOGY INFLUENCED THE PERMANENT AGRICULTURE MOVEMENT THAT ADVOCATED SUCH RADICAL CONCEPTS AS LONG TERM LAND USE PLANNING COMPREHENSIVE SOIL CONSERVATION AND ORGANIC FARMING THEN IN THE 1970S SUSTAINABLE AGRICULTURE COMBINED MANY OF THESE IDEAS WITH NEW CONCERNS ABOUT MISGUIDED TECHNOLOGY AND AN OVER CONSUMPTIVE CULTURE TO PREACH A MORE SENSIBLE APPROACH TO FARMING IN CHRONICLING THE OVERLOOKED HISTORY OF ALTERNATIVE AGRICULTURE A GREEN AND PERMANENT LAND RECORDS THE SIGNIFICANT CONTRIBUTIONS OF INDIVIDUALS LIKE REX TUGWELL HUGH BENNETT LOUIS BROMFIELD EDWARD FAULKNER RUSSELL AND KATE LORD SCOTT AND HELEN NEARING ESPECIALLY IN THE FACE OF CLIMATIC CRISES GENETICALLY ALTERED CROPS AND QUESTIONABLE USES OF PESTICIDES THIS BOOK PUTS THESE ISSUES IN HISTORICAL PERSPECTIVE AND OFFERS READERS CONSIDERABLE FOOD FOOR THOUGHT

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