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OUR CHANGING MENU MICHAEL P. HOFFMANN 2021-04-15 OUR CHANGING MENU UNPACKS THE INCREASINGLY COMPLEX RELATIONSHIPS BETWEEN FOOD AND CLIMATE CHANGE. WHETHER YOU'RE A CHEF, BAKER, DISTILLER, RESTAURATEUR, OR SOMEONE WHO SIMPLY ENJOYS A GOOD PIZZA OR DRINK, IT'S TIME TO COME TO TERMS WITH HOW CLIMATE CHANGE IS AFFECTING OUR DIVERSE AND INTERWOVEN FOOD SYSTEM. MICHAEL P. HOFFMANN, CARRIE KOPLINKA-LOEHR, AND DANIELLE L. EISEMAN OFFER AN EYE-OPENING JOURNEY THROUGH A COMPLETE MENU OF BEFORE-DINNER DRINKS AND SALADS; MAIN COURSES AND SIDES; AND COFFEE AND DESSERT. ALONG THE WAY THEY EXAMINE THE ESCALATING CHANGES OCCURRING TO THE FLAVORS OF SPICES AND TEAS, THE YIELDS OF WHEAT, THE VITAMINS IN RICE, AND THE PRICE OF VANILLA. THEIR STORY IS ROUNDED OUT WITH A PRIMER ON THE GLOBAL FOOD SYSTEM, THE CAUSES AND IMPACTS OF CLIMATE CHANGE, AND WHAT WE CAN ALL DO. OUR CHANGING MENU IS A CELEBRATION OF FOOD AND A CALL TO ACTION—ENCOURAGING READERS TO JOIN WITH OTHERS FROM THE COMMON GROUND OF FOOD TO HELP TACKLE THE GREATEST CHALLENGE OF OUR TIME.

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THE PHILIPPINE AGRICULTURAL SCIENTIST 2011

THE TEAK GENOME YASODHA RAMASAMY 2021-09-01 THIS BOOK IS THE FIRST COMPREHENSIVE COMPILATION OF KNOWLEDGE ON TEAK BIOLOGY, ECOLOGY, CLONAL FORESTRY, CLONAL REGISTRATION, SEED BIOLOGY, AND SEED ORCHARDS. THE TEAK GENETIC DIVERSITY, THE SEQUENCED GENOME, AND TRANSCRIPTOMES FROM DIFFERENT TISSUES AND THEIR IMPLICATIONS IN MODERN TREE IMPROVEMENT AND MATERIAL SELECTION HAVE BEEN COMPREHENSIVELY DISCUSSED. THE BOOK ALSO PRESENTS A NARRATIVE ON WOOD CHARACTERIZATION, WOOD CHEMISTRY, MODERN SILVICULTURE, GROWTH AND MODELLING, AND ECONOMICS OF THIS VALUED TROPICAL SPECIES. ALTOGETHER, THE BOOK CONTAINS ABOUT 200 PAGES OVER 16 CHAPTERS AUTHORED BY GLOBALLY REPUTED EXPERTS ON THE RELEVANT FIELD IN THIS TROPICAL TREE. THIS BOOK IS USEFUL TO STUDENTS, TEACHERS, AND SCIENTISTS, AND WOOD-BASED INDUSTRIES ARE INTERESTED IN FORESTRY, BIOLOGY, SEED ORCHARDS, BREEDING, GENETIC DIVERSITY, MOLECULAR GENETICS, IN VITRO CULTURE, WOOD CHEMISTRY, AND STRUCTURAL AND FUNCTIONAL GENOMICS.

ECOLOGICAL SUSTAINABILITY ROBERT B. NORTHPROP 2016-04-19 COMPLEX SYSTEMS IS

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by Mia z Robertson

A NEW FIELD OF SCIENCE STUDYING HOW PARTS OF A SYSTEM GIVE RISE TO THE COLLECTIVE BEHAVIORS OF THE SYSTEM, AND HOW THE SYSTEM INTERACTS WITH ITS ENVIRONMENT. THIS BOOK EXAMINES THE COMPLEX SYSTEMS INVOLVED IN ENVIRONMENTAL SUSTAINABILITY, AND EXAMINES THE TECHNOLOGIES INVOLVED TO HELP MITIGATE HUMAN IMPACTS, SUCH AS RENEWABLE ENERGY, DESALINATION, CARBON CAPTURE, RECYCLING, ETC. IT CONSIDERS THE RELATIONSHIPS AND BALANCE BETWEEN ENVIRONMENTAL ENGINEERING AND SCIENCE, ECONOMICS, AND HUMAN ACTIVITY, WITH REGARD TO SUSTAINABILITY.

THE PROACTIONARY IMPERATIVE S. FULLER 2014-07-16 THE PROACTIONARY IMPERATIVE DEBATES THE CONCEPT OF TRANSFORMING HUMAN NATURE, INCLUDING SUCH THORNY TOPICS AS HUMANITY'S PRIVILEGE AS A SPECIES, OUR CAPACITY TO 'PLAY GOD', THE IDEA THAT WE MIGHT TREAT OUR GENES AS A CAPITAL INVESTMENT, EUGENICS AND WHAT IT MIGHT MEAN TO BE 'HUMAN' IN THE CONTEXT OF RISKY SCIENTIFIC AND TECHNOLOGICAL INTERVENTIONS.

GUIDE FOR THE CARE AND USE OF LABORATORY ANIMALS NATIONAL RESEARCH COUNCIL 2011-01-27 A RESPECTED RESOURCE FOR DECADES, THE GUIDE FOR THE CARE AND USE OF LABORATORY ANIMALS HAS BEEN UPDATED BY A COMMITTEE OF EXPERTS, TAKING INTO CONSIDERATION INPUT FROM THE SCIENTIFIC AND LABORATORY ANIMAL COMMUNITIES AND THE PUBLIC AT LARGE. THE GUIDE INCORPORATES NEW SCIENTIFIC INFORMATION ON COMMON LABORATORY ANIMALS, INCLUDING AQUATIC SPECIES, AND INCLUDES EXTENSIVE REFERENCES. IT IS ORGANIZED AROUND MAJOR COMPONENTS OF ANIMAL USE: KEY CONCEPTS OF ANIMAL CARE AND USE. THE GUIDE SETS THE FRAMEWORK FOR THE HUMANE CARE AND USE OF LABORATORY ANIMALS. ANIMAL CARE AND USE PROGRAM. THE GUIDE DISCUSSES THE CONCEPT OF A BROAD PROGRAM OF ANIMAL CARE AND USE, INCLUDING ROLES AND RESPONSIBILITIES OF THE INSTITUTIONAL OFFICIAL, ATTENDING VETERINARIAN AND THE INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE. ANIMAL ENVIRONMENT, HUSBANDRY, AND MANAGEMENT. A CHAPTER ON THIS TOPIC IS NOW DIVIDED INTO SECTIONS ON TERRESTRIAL AND AQUATIC ANIMALS AND PROVIDES RECOMMENDATIONS FOR HOUSING AND ENVIRONMENT, HUSBANDRY, BEHAVIORAL AND POPULATION MANAGEMENT, AND MORE. VETERINARY CARE. THE GUIDE DISCUSSES VETERINARY CARE AND THE RESPONSIBILITIES OF THE ATTENDING VETERINARIAN. IT INCLUDES RECOMMENDATIONS ON ANIMAL PROCUREMENT AND TRANSPORTATION, PREVENTIVE MEDICINE (INCLUDING ANIMAL BIOSECURITY), AND CLINICAL CARE AND MANAGEMENT. THE GUIDE ADDRESSES DISTRESS AND PAIN RECOGNITION AND RELIEF, AND ISSUES SURROUNDING EUTHANASIA. PHYSICAL PLANT. THE GUIDE IDENTIFIES DESIGN ISSUES, PROVIDING CONSTRUCTION GUIDELINES FOR FUNCTIONAL AREAS; CONSIDERATIONS SUCH AS DRAINAGE, VIBRATION AND NOISE CONTROL, AND ENVIRONMENTAL MONITORING; AND SPECIALIZED FACILITIES FOR ANIMAL HOUSING AND RESEARCH NEEDS. THE GUIDE FOR THE CARE AND USE OF LABORATORY ANIMALS PROVIDES A FRAMEWORK FOR THE JUDGMENTS REQUIRED IN THE MANAGEMENT OF ANIMAL FACILITIES. THIS UPDATED AND EXPANDED RESOURCE OF PROVEN VALUE WILL BE IMPORTANT TO SCIENTISTS AND RESEARCHERS, VETERINARIANS, ANIMAL CARE PERSONNEL, FACILITIES MANAGERS, INSTITUTIONAL ADMINISTRATORS, POLICY MAKERS INVOLVED IN RESEARCH ISSUES, AND ANIMAL WELFARE ADVOCATES.

THE CHEMICAL WEAPONS CONVENTION WALTER KRUTZSCH 2014-08-07 THIS BOOK PROVIDES AN ARTICLE-BY-ARTICLE COMMENTARY ON THE TEXT OF THE CHEMICAL WEAPONS CONVENTION (CWC) AND ITS ANNEXES, ONE OF THE CORNERSTONE DISARMAMENT AND ARMS CONTROL AGREEMENTS. IT REQUIRES THE VERIFIED ELIMINATION OF AN ENTIRE CATEGORY OF WEAPONS OF MASS DESTRUCTION AND THEIR MEANS OF PRODUCTION BY ALL ITS STATES PARTIES WITHIN ESTABLISHED TIME LINES, AND THAT PROHIBITS ANY ACTIVITIES TO DEVELOP OR OTHERWISE ACQUIRE SUCH WEAPONS. CROSS-CUTTING CHAPTERS ALONGSIDE THE DETAILED COMMENTARY, BY THOSE INTIMATELY INVOLVED IN THE DEVELOPMENT OF THE CONVENTION, ASSESS THE HISTORY OF THE EFFORTS TO PROHIBIT CHEMICAL WEAPONS, THE ADOPTION OF THE CONVENTION AND THE WORK OF THE PREPARATORY COMMISSION, THE ENTRY INTO FORCE OF THE CONVENTION TO THE SECOND REVIEW CONFERENCE, AND THE NEED FOR A NEW APPROACH FOR THE GOVERNANCE OF CHEMICAL WEAPONS. WRITTEN BY THOSE INVOLVED IN ITS CREATION AND IMPLEMENTATION, THIS BOOK CRITICALLY REVIEWS THE PRACTICES ADOPTED IN IMPLEMENTING THE CONVENTION, AS WELL AS THE CHALLENGES AHEAD, AND PROVIDES LEGAL COMMENTARY ON, AND GUIDANCE FOR, ITS FUTURE ROLE. IT ASSESSES HOW TO ADAPT ITS IMPLEMENTATION TO ADVANCES IN SCIENCE AND TECHNOLOGY, INCLUDING THE DISCOVERY OF NEW CHEMICALS AND THE DEVELOPMENT OF BIOCHEMICAL 'NON-LETHAL' COMPOUNDS THAT INFLUENCE BEHAVIOUR. IT ADDRESSES THE LEGAL FRAMEWORK WITHIN WHICH THE ORGANIZATION FOR THE PROHIBITION OF CHEMICAL WEAPONS (OPCW) TAKES DECISIONS, BOTH WITH REGARD TO THE OPCW'S OWN REGULATORY FRAMEWORK AND REGARDING WIDER INTERNATIONAL NORMS, ACCEPTED PRINCIPLES, AND PRACTICES. THE COMMENTARY DRAWS CONCLUSIONS ON HOW THE PROHIBITIONS AGAINST CHEMICAL WEAPONS CAN BE STRENGTHENED AND THE STATURE OF THE OPCW PROTECTED. IT HIGHLIGHTS THE INVOLVEMENT OF INDUSTRY AND ACADEMIA IN THIS PROHIBITION, CREATING A SYMBIOSIS BETWEEN EFFECTIVE GOVERNANCE AND THE LEGAL FRAMEWORK OF THE CONVENTION. THIS BOOK IS AN AUTHORITATIVE, SCHOLARLY WORK FOR ANYONE INTERESTED IN THE CHEMICAL WEAPONS CONVENTION, IN INTERNATIONAL DISARMAMENT AND ARMS CONTROL LAW, AND IN THE WORK OF INTERNATIONAL ORGANIZATIONS, AND A PRACTICAL GUIDE FOR INDIVIDUALS AND INSTITUTIONS INVOLVED IN THE CONVENTION'S DAY-TO-DAY IMPLEMENTATION.

MEDIA, ENVIRONMENT AND THE NETWORK SOCIETY A. ANDERSON 2014-09-18 THE NEWS MEDIA HAS BECOME A KEY ARENA FOR STAGING ENVIRONMENTAL CONFLICTS. THROUGH A RANGE OF ILLUMINATING EXAMPLES RANGING FROM CLIMATE CHANGE TO OIL SPILLS, MEDIA, ENVIRONMENT AND THE NETWORK SOCIETY PROVIDES A TIMELY AND FAR-REACHING ANALYSIS OF THE MEDIA POLITICS OF CONTEMPORARY ENVIRONMENTAL DEBATES.

THE ALBATROSS AND THE FISH ROBIN W. DOUGHTY 2012-01-20 BREEDING ON REMOTE OCEAN ISLANDS AND SPENDING MUCH OF ITS LIFE FORAGING FOR FOOD ACROSS VAST STRETCHES OF SEEMINGLY EMPTY SEAS, THE ALBATROSS REMAINS A LEGEND FOR MOST PEOPLE. AND YET, HUMANS ARE THREATENING THE ALBATROSS FAMILY TO SUCH AN EXTENT THAT IT IS CURRENTLY THE MOST THREATENED BIRD GROUP IN THE WORLD. IN THIS EXTENSIVELY RESEARCHED, HIGHLY READABLE BOOK, ROBIN W. DOUGHTY AND VIRGINIA CARMICHAEL TELL THE STORY OF A POTENTIALLY CATASTROPHIC EXTINCTION THAT HAS BEEN INTERRUPTED BY AN UNLIKELY ALLIANCE OF GOVERNMENTS, CONSERVATION GROUPS, AND FISHERMEN. DOUGHTY AND CARMICHAEL AUTHORITATIVELY ESTABLISH THAT THE ALBATROSS'S FATE IS LINKED TO THE FATE OF TWO OF THE HIGHEST-VALUE TABLE FISH, BLUEFIN TUNA AND PATAGONIAN TOOTHFISH, WHICH ARE THREATENED BY UNREGULATED COMMERCIAL HARVESTING. THE AUTHORS TELL US THAT COMMERCIAL FISHING TECHNIQUES

ARE ANNUALLY KILLING TENS OF THOUSANDS OF ALBATROSSES. AND THE AUTHORS EXPLAIN HOW THE BREEDING BIOLOGY OF ALBATROSSES MAKES THEM UNABLE TO REPLENISH THEIR NUMBERS AT THE RATE THEY ARE BEING DEPLETED. DOUGHTY AND CARMICHAEL SET THE ALBATROSS'S FATE IN THE LARGER CONTEXT OF THREATS FACING THE OCEAN COMMONS, RANGING FROM INDUSTRIAL OVERFISHING TO OUR HABIT OF DUMPING CHEMICALS, SOLID WASTE, AND PLASTIC TRASH INTO THE OPEN SEAS. THEY ALSO HIGHLIGHT THE EFFORTS OF DEDICATED INDIVIDUALS, ENVIRONMENTAL GROUPS, FISHERY MANAGEMENT BODIES, AND GOVERNMENTS WHO ARE WORKING FOR SEABIRD AND FISH CONSERVATION AND DEMONSTRATE THAT THESE EFFORTS CAN LEAD TO SUSTAINABLE SOLUTIONS FOR THE ICONIC SEABIRDS AND THE ENTIRE OCEAN ECOSYSTEM.

HEAVY! RICHARD B. MCKENZIE 2011-09-30 AMERICA'S EMERGING "FAT WAR" THREATENS TO PIT A SHRINKING POPULATION OF TRIM AMERICANS AGAINST AN EXPANDING POPULATION OF HEAVY AMERICANS IN RAGING POLICY DEBATES OVER "FAT TAXES" AND "FAT BANS."

THESE "FAT POLICIES" WOULD BE DESIGNED TO CONSTRAIN WHAT PEOPLE EAT AND DRINK - AND THEORETICALLY CRIMP THE GROWTH IN AMERICANS' WAISTLINES AND IN THE COUNTRY'S HEALTHCARE COSTS. RICHARD MCKENZIE'S HEAVY! THE SURPRISING REASONS AMERICA IS THE LAND OF THE FREE—AND THE HOME OF THE FAT OFFERS NEW INSIGHT INTO THE ECONOMIC CAUSES AND CONSEQUENCES OF AMERICA'S DRAMATIC WEIGHT GAIN OVER THE PAST HALF CENTURY. IT ALSO UNCOVERS THE FOLLIES OF SEEKING TO REMEDY THE COUNTRY'S WEIGHT PROBLEMS WITH GOVERNMENT INTRUSIONS INTO PEOPLE'S EXCESS EATING, ARGUING THAT CONTROLLING PEOPLE'S EATING HABITS IS FUNDAMENTALLY DIFFERENT FROM CONTROLLING PEOPLE'S SMOKING HABITS. MCKENZIE CONTROVERSIALLY LINKS AMERICA'S WEIGHT GAIN TO A VARIETY OF CAUSES: THE GROWTH IN WORLD TRADE FREEDOM, THE DOWNFALL OF COMMUNISM, THE SPREAD OF FREE-MARKET ECONOMICS, THE RISE OF WOMEN'S LIBERATION, THE LONG-TERM FALL IN REAL MINIMUM WAGE, AND THE RISE OF COMPETITIVE MARKETS ON A GLOBAL SCALE. IN NO SMALL WAY - NO, IN A VERY BIG WAY - AMERICA IS THE "HOME OF THE FAT" BECAUSE IT HAS BEEN FOR SO LONG THE "LAND OF THE FREE." AMERICANS' ECONOMIC, IF NOT POLITICAL, FREEDOMS, HOWEVER, WILL COME UNDER SIEGE AS WELL-MEANING GROUPS OF "ANTI-FAT WARRIORS" SEEK TO IMPOSE THEIR DIETARY, HEALTH, AND HEALTHCARE VALUES ON EVERYONE ELSE. HEAVY! DETAILS THE UNHERALDED CONSEQUENCES OF THE COUNTRY'S WEIGHT GAIN, WHICH INCLUDE GREATER FUEL CONSUMPTION AND EMISSIONS OF GREENHOUSE GASES, REDUCED FUEL EFFICIENCY OF CARS AND PLANES, GROWTH IN HEALTH INSURANCE COSTS AND FEWER INSURED AMERICANS, REDUCTIONS IN THE WAGES OF HEAVY PEOPLE, AND REQUIRED REINFORCEMENT OF RESCUE EQUIPMENT AND HOSPITAL OPERATING TABLES. MCKENZIE ADVOCATES A STRONG FREE-MARKET SOLUTION TO HOW AMERICA'S WEIGHT PROBLEMS SHOULD AND SHOULD NOT BE SOLVED. FOR AMERICANS TO RETAIN THEIR CHERISHED ECONOMIC FREEDOMS OF CHOICE, HEAVY PEOPLE MUST BE HELD FULLY RESPONSIBLE FOR THEIR WEIGHT-RELATED COSTS AND NOT BE ALLOWED TO SHIFT BLAME FOR THEIR WEIGHT TO THEIR GENES OR ENVIRONMENT. ALLOWING HEAVY AMERICANS TO SHIFT RESPONSIBILITY FOR THEIR WEIGHT GAIN CAN ONLY EXACERBATE THE COUNTRY'S WEIGHT PROBLEMS.

THE HYDROLOGICAL POLITICS OF DAMS MARK EVERARD 2013-08-08 THE HYDROLOGICAL POLITICS OF DAMS CHARTS THE TROUBLED WATERS OF 'HEAVY ENGINEERING' APPROACHES TO ECOSYSTEM MANAGEMENT, EXPLORING THE HISTORY, BENEFITS AND PROBLEMS OF LARGE DAMS. IT THEN EXPLORES DIVERSE ECOSYSTEM-BASED APPROACHES TO MANAGEMENT OF HUMAN INTERACTIONS WITH THE WATER CYCLE, CONCLUDING THAT A SYNTHESIS OF APPROACHES IS NEEDED IN FUTURE. THE BOOK ALSO ADDRESSES POLITICAL, ECONOMIC AND LEGAL DIMENSIONS OF WATER MANAGEMENT. FEATURING CASE STUDIES FROM CHINA, INDIA AND SOUTH AFRICA, THIS INSIGHTFUL NEW BOOK ARGUES THAT THERE ARE MORE APPROPRIATE PHYSICAL AND SOCIAL TECHNOLOGIES THAT CAN HELP TO SUSTAINABLY PROVIDE ACCESS TO CLEAN WATER FOR ALL.

INFORMATION SYSTEMS FOR GLOBAL FINANCIAL MARKETS: EMERGING DEVELOPMENTS AND EFFECTS YAP, ALEXANDER Y. 2011-11-30 "THIS BOOK OFFERS FOCUSED RESEARCH ON THE SYSTEMS AND TECHNOLOGIES THAT PROVIDE INTELLIGENCE AND EXPERTISE TO TRADERS AND INVESTORS AND FACILITATE THE AGILE ORDERING PROCESSES, NETWORKING, AND REGULATION OF GLOBAL FINANCIAL ELECTRONIC MARKETS" --PROVIDED BY PUBLISHER.

SOCIAL MEDIA AND THE NEW ACADEMIC ENVIRONMENT: PEDAGOGICAL CHALLENGES P. TRU?, BOGDAN 2013-01-31 AS WEB APPLICATIONS PLAY A VITAL ROLE IN OUR SOCIETY, SOCIAL MEDIA HAS EMERGED AS AN IMPORTANT TOOL IN THE CREATION AND EXCHANGE OF USER-GENERATED CONTENT AND SOCIAL INTERACTION. THE BENEFITS OF THESE SERVICES HAVE ENTERED IN THE EDUCATIONAL AREAS TO BECOME NEW MEANS BY WHICH SCHOLARS COMMUNICATE, COLLABORATE, AND TEACH. SOCIAL MEDIA AND THE NEW ACADEMIC ENVIRONMENT: PEDAGOGICAL CHALLENGES PROVIDES RELEVANT THEORETICAL FRAMEWORKS AND THE LATEST RESEARCH ON SOCIAL MEDIA AND ITS CHALLENGES IN THE EDUCATIONAL CONTEXT. THIS BOOK IS ESSENTIAL FOR PROFESSIONALS AIMING TO IMPROVE THEIR UNDERSTANDING OF SOCIAL MEDIA AT DIFFERENT LEVELS OF EDUCATION, AS WELL AS RESEARCHERS IN THE FIELDS OF E-LEARNING, EDUCATIONAL SCIENCE, INFORMATION AND COMMUNICATION SCIENCES, AND MUCH MORE.

HOW TOBACCO SMOKE CAUSES DISEASE 2010 THIS REPORT CONSIDERS THE BIOLOGICAL AND BEHAVIORAL MECHANISMS THAT MAY UNDERLIE THE PATHOGENICITY OF TOBACCO SMOKE. MANY SURGEON GENERAL'S REPORTS HAVE CONSIDERED RESEARCH FINDINGS ON MECHANISMS IN ASSESSING THE BIOLOGICAL PLAUSIBILITY OF ASSOCIATIONS OBSERVED IN EPIDEMIOLOGIC STUDIES. MECHANISMS OF DISEASE ARE IMPORTANT BECAUSE THEY MAY PROVIDE PLAUSIBILITY, WHICH IS ONE OF THE GUIDELINE CRITERIA FOR ASSESSING EVIDENCE ON CAUSATION. THIS REPORT SPECIFICALLY REVIEWS THE EVIDENCE ON THE POTENTIAL MECHANISMS BY WHICH SMOKING CAUSES DISEASES AND CONSIDERS WHETHER A MECHANISM IS LIKELY TO BE OPERATIVE IN THE PRODUCTION OF HUMAN DISEASE BY TOBACCO SMOKE. THIS EVIDENCE IS RELEVANT TO UNDERSTANDING HOW SMOKING CAUSES DISEASE, TO IDENTIFYING THOSE WHO MAY BE PARTICULARLY SUSCEPTIBLE, AND TO ASSESSING THE POTENTIAL RISKS OF TOBACCO PRODUCTS.

AN OPTIMIST'S TOUR OF THE FUTURE MARK STEVENSON 2011-02-03 IN THE TRADITION OF BILL BRYSON'S A SHORT HISTORY OF NEARLY EVERYTHING, A SMART AND ENTERTAINING GUIDE TO THE FUTURE OF CIVILIZATION WHEN UNEXPECTEDLY CONFRONTED WITH HIS OWN MORTALITY, MARK STEVENSON—A WRITER, DEEP-THINKER, AND STAND-UP COMEDIAN—BEGAN TO PONDER WHAT THE FUTURE HOLDS FOR OUR SPECIES. "THE PAST IS A FOREIGN COUNTRY," WRITES STEVENSON. "BY MY ANALYSIS IT'S A BIT LIKE FRANCE—IN THAT I'VE BEEN TO PARTS OF IT AND EATEN SOME NICE FOOD THERE. BUT THE FUTURE? THE FUTURE IS

AN UNKNOWN TERRITORY—AND THERE ISN'T A GUIDEBOOK." THUS, HIS AMBITION WAS BORN. STEVENSON SET OUT SIMPLY, ASKING, "WHAT'S NEXT?" AND THEN TRAVELED THE GLOBE IN PURSUIT OF THE ANSWERS. ALONG THE WAY, HE VISITED THE AUSTRALIAN OUTBACK TO VISIT THE FARMERS WHO CAN SAVE US FROM CLIMATE CHANGE, MET A ROBOT WITH MOOD SWINGS, AND TALKED TO THE SPANIARD WHO'S PUTTING A HOTEL IN SPACE. WHILE SOME MIGHT BE OVERWHELMED, OR EVEN DISMAYED BY THE LOOMING REALITIES OF GENOME SEQUENCING, SYNTHETIC BIOLOGY, A NUCLEAR RENAISSANCE, AND CARBON SCRUBBING, STEVENSON REMAINS, WELL, OPTIMISTIC. DRAWING ON HIS SINGULAR HUMOR AND STORYTELLING TO BREAK DOWN THESE SOMETIMES COMPLICATED DISCOVERIES, AN OPTIMIST'S TOUR OF THE FUTURE PAINTS A WONDERFULLY READABLE, AND COMPLETELY ENTHRALLING PORTRAIT OF WHERE WE'LL BE WHEN WE GROW UP—AND WHY IT'S NOT SO SCARY. WATCH A VIDEO

MATH EDUCATION FOR AMERICA? MARK WOLFMAYER 2013-12-04 MATH EDUCATION FOR AMERICA? ANALYZES MATH EDUCATION POLICY THROUGH THE SOCIAL NETWORK OF INDIVIDUALS AND PRIVATE AND PUBLIC ORGANIZATIONS THAT INFLUENCE IT IN THE UNITED STATES. THE EFFORT TO STANDARDIZE A NATIONAL MATHEMATICS CURRICULUM FOR PUBLIC SCHOOLS IN THE U.S. CULMINATED IN 2010 WHEN OVER 40 STATES ADOPTED THE COMMON CORE STATE STANDARDS FOR MATHEMATICS. RATHER THAN LOOKING AT THE TEXT OF SPECIFIC POLICY DOCUMENTS, THIS BOOK COMPLEMENTS EXISTING CRITICAL REVIEWS OF THE NATIONAL MATH EDUCATION CURRICULUM BY EMPLOYING A UNIQUE SOCIAL NETWORK ANALYSIS. BREAKING NEW GROUND IN DETAILING AND THEORIZING THE POLITICS OF MATH EDUCATION, WOLFMAYER ARGUES THAT THE PRIVATE INTERESTS OF THIS NETWORK ARE CLOSELY TIED TO A WEB OF INTERRELATED DEVELOPMENTS: HUMAN CAPITAL EDUCATION POLICY, DEBATES OVER TRADITIONAL AND REFORM PEDAGOGY, THE ASSUMED CONTENT KNOWLEDGE DEFICIT OF MATH TEACHERS, AND THE PROLIFERATION OF PROFIT-DRIVEN EDUCATIONAL BUSINESSES. BY ESTABLISHING THE INTERCONNECTEDNESS OF THESE INTERESTS WITH THE NATIONAL MATH EDUCATION CURRICULUM, HE SHOWS HOW THE PURPORTED GOALS OF MATH EDUCATION REFORM ARE ALIGNED WITH THE PREVAILING POLITICAL AGENDAS OF THIS SOCIAL NETWORK RATHER THAN THE NATIONAL INTEREST.

DISCOVERY SERIES: HUMAN SEXUALITY JANELL L. CARROLL 2012-01-27 THE CENGAGE LEARNING DISCOVERY SERIES: HUMAN SEXUALITY IS DESIGNED TO DELIVER TRADITIONAL COURSE CONTENT IN AN INNOVATIVE HYBRID LEARNING FORMAT INSTRUCTION PRESENTED IN A PRINTED HANDBOOK PAIRED WITH INTEGRATED ONLINE APPLICATIONS AND ASSESSMENTS. THE PROGRAM PROMOTES MEASURABLE MASTERY OF CORE COURSE LEARNING OBJECTIVES BY GUIDING STUDENTS' ACTIVE ENGAGEMENT WITH CONTENT DELIVERED THROUGH THE BOOK, IMAGES, VIDEO, SIMULATIONS, AND ASSESSMENTS. THIS CONTEMPORARY APPROACH TO LEARNING SEAMLESSLY INTEGRATES TEXT AND TECHNOLOGY, ENABLING STUDENTS TO EASILY MOVE FROM THE BOOK'S INSTRUCTION TO ITS ONLINE APPLICATIONS FOR A DEEPER, LASTING UNDERSTANDING OF THE CORE PSYCHOLOGICAL CONCEPTS, AND FOR ASSESSMENTS (ALL ASSIGNABLE) THAT RELIABLY TRACK STUDENTS' PROGRESS AND PERFORMANCE. IMPORTANT NOTICE: MEDIA CONTENT REFERENCED WITHIN THE PRODUCT DESCRIPTION OR THE PRODUCT TEXT MAY NOT BE AVAILABLE IN THE EBOOK VERSION.

COMPLEXITY ECONOMICS OLIVIER KOVACS 2022-07-15 OUR SOCIO-ECONOMIC INNOVATION ECOSYSTEM IS RIDDLED WITH EVER-INCREASING COMPLEXITY, AS WE ARE FACED WITH MORE FREQUENT AND INTENSE SHOCKS, SUCH AS COVID-19. UNFORTUNATELY, ADDRESSING COMPLEXITY REQUIRES A DIFFERENT KIND OF ECONOMIC GOVERNANCE. THERE IS INCREASING PRESSURE ON ECONOMICS TO NOT ONLY GOING BEYOND ITS TRADITIONAL MAINSTREAM BOUNDARIES BUT ALSO TO TACKLE REAL-WORLD PROBLEMS, SUCH AS FOSTERING STRUCTURAL CHANGE, ENHANCING SUSTAINED GROWTH, PROMOTING INCLUSIVE DEVELOPMENT IN THE ERA OF THE DIGITAL ECONOMY, AND BOOSTING GREEN GROWTH, WHILE ADDRESSING THE DIVIDE BETWEEN THE FINANCIAL SECTOR AND THE REAL ECONOMY. THIS BOOK DEMONSTRATES HOW TO APPLY COMPLEXITY SCIENCE TO ECONOMICS IN AN EFFECTIVE AND INSTRUCTIVE WAY, IN THE INTEREST OF LIFE-ENHANCING POLICIES. THE BOOK REVOLVES AROUND THE NON-NEGLIGIBLE PROBLEM OF WHY ECONOMICS, TO DATE, SEEMS TO BE INADEQUATE IN GUIDING ECONOMIC GOVERNANCE TO NAVIGATE THROUGH REAL AND EVER-INTENSIFYING COMPLEX SOCIO-ECONOMIC AND ENVIRONMENTAL CHALLENGES. WITH ITS INTERDISCIPLINARY APPROACH, THE BOOK SCANS THE NUANCED NEXUS BETWEEN COMPLEXITY AND ECONOMICS BY INCORPORATING, AS WELL AS TRANSCENDING, THE STATE-OF-THE-ART LITERATURE. IT IDENTIFIES WAYS TO TRIGGER OPPORTUNITIES FOR BEHAVIOURAL CHANGE IN THE ECONOMIC PROFESSION WITH RESPECT TO HOW AND WHAT TO TEACH, INTRODUCING AND DEVELOPING FURTHER COMPLEXITY ECONOMICS TAKING INTO ACCOUNT THE CONFIGURATION OF ITS MAIN PRINCIPLES AND OUTLINING THE SILHOUETTE OF NEXT-GENERATION ECONOMIC GOVERNANCE. THE BOOK DECIPHERS RECOMMENDATIONS FOR ECONOMIC THEORY, PRACTICE, EDUCATION AND ECONOMIC GOVERNANCE. IT WILL BE OF INTEREST TO STUDENTS, SCHOLARS, ACADEMICS, THINK-TANK RESEARCHERS AND ECONOMIC POLICY PRACTITIONERS AT THE NATIONAL AND/OR SUPRANATIONAL LEVELS.

KENYA WETLANDS ATLAS MONDAY S. BUSINGE 2012

HORTICULTURE: PLANTS FOR PEOPLE AND PLACES, VOLUME 1 GEOFFREY R. DIXON 2014-06-10 THIS TRILOGY EXPLAINS "WHAT IS HORTICULTURE?". VOLUME ONE OF HORTICULTURE: PLANTS FOR PEOPLE AND PLACES DESCRIBES IN CONSIDERABLE DEPTH THE SCIENCE, MANAGEMENT AND TECHNOLOGY WHICH UNDERPINS THE CONTINUOUS PRODUCTION OF FRESH AND PROCESSED HORTICULTURAL PRODUCE. FIRSTLY, THERE IS A CONSIDERATION OF TECHNOLOGICAL INNOVATION DERIVED FROM BASIC SCIENTIFIC DISCOVERIES WHICH HAS GIVEN RISE TO ENTIRELY NEW INDUSTRIES, MARKETS, NOVEL CROPS AND CHANGED SOCIAL HABITS. THEN FOLLOWS ACCOUNTS OF THE MODERN PRODUCTION OF: FIELD VEGETABLES, TEMPERATE FRUIT, TROPICAL FRUIT, CITRUS, PLANTATION CROPS, BERRY CROPS, VITICULTURE, PROTECTED CROPS, FLOWER CROPS, NEW CROPS, POST-HARVEST HANDLING, SUPPLY CHAIN MANAGEMENT AND THE ENVIRONMENTAL IMPACT OF PRODUCTION. EACH CHAPTER IS WRITTEN BY ACKNOWLEDGED WORLD EXPERTS. NEVER BEFORE HAS SUCH AN ARRAY OF PLENTIFUL, HIGH QUALITY FRESH FRUIT, VEGETABLES AND ORNAMENTALS BEEN AVAILABLE YEAR-ROUND IN THE WORLD'S RETAIL MARKETS. HORTICULTURE GIVES CONSUMERS THIS GIFT OF NUTRITIOUS, HIGH QUALITY, SAFE AND DIVERSE FRESH FOODS. THIS IS ACHIEVED BY MANIPULATING PLANT GROWTH, REPRODUCTION AND POSTHARVEST HUSBANDRY. THE MULTI-BILLION DOLLAR INTERNATIONAL INDUSTRY ACHIEVING THIS IS PRODUCTION HORTICULTURE THE SUBJECT OF THIS INFORMATIVE BOOK.

THE NEW WILD FRED PEARCE 2015-04-07 NAMED ONE OF THE BEST BOOKS OF 2015 BY THE ECONOMIST A PROVOCATIVE EXPLORATION OF THE "NEW ECOLOGY" AND WHY MOST

OF WHAT WE THINK WE KNOW ABOUT ALIEN SPECIES IS WRONG FOR A LONG TIME, VETERAN ENVIRONMENTAL JOURNALIST FRED PEARCE THOUGHT IN STARK TERMS ABOUT INVASIVE SPECIES: THEY WERE THE EVIL INTERLOPERS SPOILING PRISTINE "NATURAL" ECOSYSTEMS. MOST CONSERVATIONISTS AND ENVIRONMENTALISTS SHARE THIS VIEW. BUT WHAT IF THE TRADITIONAL VIEW OF ECOLOGY IS WRONG—WHAT IF TRUE ENVIRONMENTALISTS SHOULD BE APPLAUDING THE INVADERS? IN THE NEW WILD, PEARCE GOES ON A JOURNEY ACROSS SIX CONTINENTS TO REDISCOVER WHAT CONSERVATION IN THE TWENTY-FIRST CENTURY SHOULD BE ABOUT. PEARCE EXPLORES ECOSYSTEMS FROM REMOTE PACIFIC ISLANDS TO THE UNITED KINGDOM, FROM SAN FRANCISCO BAY TO THE GREAT LAKES, AS HE DIGS INTO QUESTIONABLE ESTIMATES OF THE COST OF INVADER SPECIES AND REVEALS THE OUTDATED INTELLECTUAL SOURCES OF OUR IDEAS ABOUT THE BALANCE OF NATURE. PEARCE ACKNOWLEDGES THAT THERE ARE HORROR STORIES ABOUT ALIEN SPECIES DISRUPTING ECOSYSTEMS, BUT MOST OF THE TIME, THE TENS OF THOUSANDS OF INTRODUCED SPECIES USUALLY SWIFTLY DIE OUT OR SETTLE DOWN AND BECOME MODEL ECO-CITIZENS. THE CASE FOR KEEPING OUT ALIEN SPECIES, HE FINDS, LOOKS INCREASINGLY FLAWED. AS PEARCE ARGUES, MAINSTREAM ENVIRONMENTALISTS ARE RIGHT THAT WE NEED A REWILDING OF THE EARTH, BUT THEY ARE WRONG IF THEY IMAGINE THAT WE CAN ACHIEVE THAT BY REENGINEERING ECOSYSTEMS. HUMANS HAVE CHANGED THE PLANET TOO MUCH, AND NATURE NEVER GOES BACKWARD. BUT A GROWING GROUP OF SCIENTISTS IS TAKING A FRESH LOOK AT HOW SPECIES INTERACT IN THE WILD. ACCORDING TO THESE NEW ECOLOGISTS, WE SHOULD APPLAUD THE DYNAMISM OF ALIEN SPECIES AND THE NOVEL ECOSYSTEMS THEY CREATE. IN AN ERA OF CLIMATE CHANGE AND WIDESPREAD ECOLOGICAL DAMAGE, IT IS ABSOLUTELY CRUCIAL THAT WE FIND WAYS TO HELP NATURE REGENERATE. EMBRACING THE NEW ECOLOGY, PEARCE SHOWS US, IS OUR BEST CHANCE. TO BE AN ENVIRONMENTALIST IN THE TWENTY-FIRST CENTURY MEANS CELEBRATING NATURE'S WILDNESS AND CAPACITY FOR CHANGE. FROM THE HARDCOVER EDITION.

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES NATIONAL RESEARCH COUNCIL 2009-07-29 SCORES OF TALENTED AND DEDICATED PEOPLE SERVE THE FORENSIC SCIENCE COMMUNITY, PERFORMING VITALLY IMPORTANT WORK. HOWEVER, THEY ARE OFTEN CONSTRAINED BY LACK OF ADEQUATE RESOURCES, SOUND POLICIES, AND NATIONAL SUPPORT. IT IS CLEAR THAT CHANGE AND ADVANCEMENTS, BOTH SYSTEMATIC AND SCIENTIFIC, ARE NEEDED IN A NUMBER OF FORENSIC SCIENCE DISCIPLINES TO ENSURE THE RELIABILITY OF WORK, ESTABLISH ENFORCEABLE STANDARDS, AND PROMOTE BEST PRACTICES WITH CONSISTENT APPLICATION. STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES: A PATH FORWARD PROVIDES A DETAILED PLAN FOR ADDRESSING THESE NEEDS AND SUGGESTS THE CREATION OF A NEW GOVERNMENT ENTITY, THE NATIONAL INSTITUTE OF FORENSIC SCIENCE, TO ESTABLISH AND ENFORCE STANDARDS WITHIN THE FORENSIC SCIENCE COMMUNITY. THE BENEFITS OF IMPROVING AND REGULATING THE FORENSIC SCIENCE DISCIPLINES ARE CLEAR: ASSISTING LAW ENFORCEMENT OFFICIALS, ENHANCING HOMELAND SECURITY, AND REDUCING THE RISK OF WRONGFUL CONVICTION AND EXONERATION. STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES GIVES A FULL ACCOUNT OF WHAT IS NEEDED TO ADVANCE THE FORENSIC SCIENCE DISCIPLINES, INCLUDING UPGRADING OF SYSTEMS AND ORGANIZATIONAL STRUCTURES, BETTER TRAINING, WIDESPREAD ADOPTION OF UNIFORM AND ENFORCEABLE BEST PRACTICES, AND MANDATORY CERTIFICATION AND ACCREDITATION PROGRAMS. WHILE THIS BOOK PROVIDES AN ESSENTIAL CALL-TO-ACTION FOR CONGRESS AND POLICY MAKERS, IT ALSO SERVES AS A VITAL TOOL FOR LAW ENFORCEMENT AGENCIES, CRIMINAL PROSECUTORS AND ATTORNEYS, AND FORENSIC SCIENCE EDUCATORS.

CONSTRUCTING INTELLECTUAL PROPERTY ALEXANDRA GEORGE 2012-03-12 THIS BOOK EXAMINES THE WAY IN WHICH THIS IMPORTANT AREA OF LAW IS CONSTRUCTED BY THE LEGAL SYSTEM.

THE FUTURE OF THE ACADEMIC JOURNAL BILL COPE 2014-07-01 THE WORLD OF THE ACADEMIC JOURNAL CONTINUES TO BE ONE OF RADICAL CHANGE. A FOLLOW-UP VOLUME TO THE FIRST EDITION OF THE FUTURE OF THE ACADEMIC JOURNAL, THIS BOOK IS A SIGNIFICANT CONTRIBUTION TO THE DEBATES AROUND THE FUTURE OF JOURNALS PUBLISHING. THE BOOK TAKES AN INTERNATIONAL PERSPECTIVE AND LOOKS AHEAD AT HOW THE INDUSTRY WILL CONTINUE TO DEVELOP OVER THE NEXT FEW YEARS. WITH CONTRIBUTIONS FROM LEADING ACADEMICS AND INDUSTRY PROFESSIONALS, THE BOOK PROVIDES A RELIABLE AND IMPARTIAL VIEW OF THIS FAST-CHANGING AREA. THE BOOK INCLUDES VARIOUS DISCUSSIONS ON THE FUTURE OF JOURNALS, INCLUDING THE INFLUENCE OF BUSINESS MODELS AND THE GROWTH OF JOURNALS PUBLISHING, OPEN ACCESS AND ACADEMIC LIBRARIES, AS WELL AS JOURNALS PUBLISHED IN ASIA, AFRICA AND SOUTH AMERICA. LOOKS AT A FAST MOVING AND VITAL AREA FOR ACADEMICS AND PUBLISHERS CONTAINS CONTRIBUTIONS FROM LEADING INTERNATIONAL FIGURES FROM UNIVERSITIES AND PUBLISHERS

INTRODUCTION TO PROBABILITY AND STATISTICS WILLIAM MENDENHALL 2012-01-01 USED BY HUNDREDS OF THOUSANDS OF STUDENTS SINCE ITS FIRST EDITION, INTRODUCTION TO PROBABILITY AND STATISTICS, FOURTEENTH EDITION, CONTINUES TO BLEND THE BEST OF ITS PROVEN, ERROR-FREE COVERAGE WITH NEW INNOVATIONS. WRITTEN FOR THE HIGHER END OF THE TRADITIONAL INTRODUCTORY STATISTICS MARKET, THE BOOK TAKES ADVANTAGE OF MODERN TECHNOLOGY—INCLUDING COMPUTATIONAL SOFTWARE AND INTERACTIVE VISUAL TOOLS—TO FACILITATE STATISTICAL REASONING AS WELL AS THE INTERPRETATION OF STATISTICAL RESULTS. IN ADDITION TO SHOWING HOW TO APPLY STATISTICAL PROCEDURES, THE AUTHORS EXPLAIN HOW TO DESCRIBE REAL SETS OF DATA MEANINGFULLY, WHAT THE STATISTICAL TESTS MEAN IN TERMS OF THEIR PRACTICAL APPLICATIONS, HOW TO EVALUATE THE VALIDITY OF THE ASSUMPTIONS BEHIND STATISTICAL TESTS, AND WHAT TO DO WHEN STATISTICAL ASSUMPTIONS HAVE BEEN VIOLATED. THE NEW EDITION RETAINS THE STATISTICAL INTEGRITY, EXAMPLES, EXERCISES, AND EXPOSITION THAT HAVE MADE THIS TEXT A MARKET LEADER—AND BUILDS UPON THIS TRADITION OF EXCELLENCE WITH NEW TECHNOLOGY INTEGRATION. IMPORTANT NOTICE: MEDIA CONTENT REFERENCED WITHIN THE PRODUCT DESCRIPTION OR THE PRODUCT TEXT MAY NOT BE AVAILABLE IN THE EBOOK VERSION.

SOLD INTO EXTINCTION: THE GLOBAL TRADE IN ENDANGERED SPECIES (GLOBAL CRIME AND JUSTICE) JACQUELINE L. SCHNEIDER 2012

THE COST MANUAL OF LABORATORY ANIMAL CARE AND USE BRYAN HOWARD 2016-04-19 COST (EUROPEAN COOPERATION IN THE FIELD OF SCIENTIFIC AND TECHNICAL RESEARCH) IS AN INTERGOVERNMENTAL INITIATIVE IN SCIENCE AND RESEARCH INTENDED TO PROMOTE THE COORDINATION OF NATIONALLY FUNDED RESEARCH IN EUROPE. FOUR WORKING GROUPS DISCUSS THE HOUSING OF ANIMALS, THEIR ENVIRONMENTAL NEEDS,

REFINEMENT OF PROCEDURES, GENETICALLY MODIFIED ANIMALS, AND COST-BENEFIT ANALYSIS. BASED ON THE ACTIVITIES OF THESE WORKING GROUPS, THIS BOOK PROVIDES THE EUROPEAN BEST PRACTICES FOR INDIVIDUALS AND INSTITUTIONS WORKING WITH LABORATORY ANIMALS. THE TEXT ALSO DISCUSSES THE ETHICAL EVALUATION OF EXPERIMENTS AND PROCEDURES INVOLVING ANIMALS.

MANAGING DIVERSITY IN TODAY'S WORKPLACE MICHELE A. PALUDI

RANKINGS AND THE RESHAPING OF HIGHER EDUCATION ELLEN HAZELKORN 2015-03-23

UNIVERSITY RANKINGS HAVE GAINED POPULARITY AROUND THE WORLD AND ARE NOW A SIGNIFICANT FACTOR SHAPING REPUTATION. THIS SECOND EDITION UPDATES ELLEN HAZELKORN'S FIRST COMPREHENSIVE STUDY OF RANKINGS FROM A GLOBAL PERSPECTIVE, DRAWING IN NEW ORIGINAL RESEARCH AND EXTENSIVE ANALYSIS. IT IS ESSENTIAL READING FOR POLICYMAKERS, MANAGERS AND SCHOLARS.

AUTONOMOUS SENSOR NETWORKS DANIEL FILIPPINI 2012-11-27 THIS VOLUME SURVEYS RECENT RESEARCH ON AUTONOMOUS SENSOR NETWORKS FROM THE PERSPECTIVE OF ENABLING TECHNOLOGIES THAT SUPPORT MEDICAL, ENVIRONMENTAL AND MILITARY APPLICATIONS.

STATE OF THE ART, AS WELL AS EMERGING CONCEPTS IN WIRELESS SENSOR NETWORKS, BODY AREA NETWORKS AND AMBIENT ASSISTED LIVING INTRODUCE THE READER TO THE FIELD, WHILE SUBSEQUENT CHAPTERS DEAL IN DEPTH WITH ESTABLISHED AND RELATED TECHNOLOGIES, WHICH RENDER THEIR IMPLEMENTATION POSSIBLE. THESE RANGE FROM SMART TEXTILES AND PRINTED ELECTRONIC DEVICES TO IMPLANTED DEVICES AND SPECIALIZED PACKAGING, INCLUDING THE MOST RELEVANT TECHNOLOGICAL FEATURES. THE LAST FOUR CHAPTERS ARE DEVOTED TO CUSTOMIZATION, IMPLEMENTATION DIFFICULTIES AND OUTLOOK FOR THESE TECHNOLOGIES IN SPECIFIC APPLICATIONS.

BIODIVERSITY MONITORING AND CONSERVATION BEN COLLEN 2013-02-14 AS THE IMPACTS OF ANTHROPOGENIC ACTIVITIES INCREASE IN BOTH MAGNITUDE AND EXTENT, BIODIVERSITY IS COMING UNDER INCREASING PRESSURE. SCIENTISTS AND POLICY MAKERS ARE FREQUENTLY HAMPERED BY A LACK OF INFORMATION ON BIOLOGICAL SYSTEMS, PARTICULARLY INFORMATION RELATING TO LONG-TERM TRENDS. SUCH INFORMATION IS CRUCIAL TO DEVELOPING AN UNDERSTANDING AS TO HOW BIODIVERSITY MAY RESPOND TO GLOBAL ENVIRONMENTAL CHANGE. KNOWLEDGE GAPS MAKE IT VERY DIFFICULT TO DEVELOP EFFECTIVE POLICIES AND LEGISLATION TO REDUCE AND REVERSE BIODIVERSITY LOSS. THIS BOOK EXPLORES THE GAP BETWEEN GLOBAL COMMITMENTS TO BIODIVERSITY CONSERVATION, AND LOCAL ACTION TO TRACK BIODIVERSITY CHANGE AND IMPLEMENT CONSERVATION ACTION. HIGH PROFILE INTERNATIONAL POLITICAL COMMITMENTS TO IMPROVE BIODIVERSITY CONSERVATION, SUCH AS THE TARGETS SET BY THE CONVENTION ON BIOLOGICAL DIVERSITY, REQUIRE INNOVATIVE AND RAPID RESPONSES FROM BOTH SCIENCE AND POLICY.

THIS MULTI-DISCIPLINARY PERSPECTIVE HIGHLIGHTS BARRIERS TO CONSERVATION AND OFFERS NOVEL SOLUTIONS TO EVALUATING TRENDS IN BIODIVERSITY AT MULTIPLE SCALES.

HOW ECONOMICS SHAPES SCIENCE PAULA STEPHAN 2015-09-07 THE BEAUTY OF SCIENCE MAY BE PURE AND ETERNAL, BUT THE PRACTICE OF SCIENCE COSTS MONEY. AND SCIENTISTS, BEING HUMAN, RESPOND TO INCENTIVES AND COSTS, IN MONEY AND GLORY. CHOOSING A RESEARCH TOPIC, DECIDING WHAT PAPERS TO WRITE AND WHERE TO PUBLISH THEM, STICKING WITH A FAMILIAR AREA OR GOING INTO SOMETHING NEW—THE PAYOFF MAY BE TENURE OR A JOB AT A HIGHLY RANKED UNIVERSITY OR A PRESTIGIOUS AWARD OR A BUMP IN SALARY. THE RISK MAY BE NOT GETTING ANY OF THAT. AT A TIME WHEN SCIENCE IS SEEN AS AN ENGINE OF ECONOMIC GROWTH, PAULA STEPHAN BRINGS A KEEN UNDERSTANDING OF THE ONGOING COST-BENEFIT CALCULATIONS MADE BY INDIVIDUALS AND INSTITUTIONS AS THEY COMPETE FOR RESOURCES AND REPUTATION. SHE SHOWS HOW UNIVERSITIES OFFLOAD RISKS BY INCREASING THE PERCENTAGE OF NON-TENURE-TRACK FACULTY, REQUIRING TENURED FACULTY TO PAY SALARIES FROM OUTSIDE GRANTS, AND STAFFING LABS WITH FOREIGN WORKERS ON TEMPORARY VISAS. WITH FUNDING TIGHT, INVESTIGATORS PURSUE SAFE PROJECTS RATHER THAN LESS FUNDABLE ONES WITH UNCERTAIN BUT POTENTIALLY PATH-BREAKING OUTCOMES. CAREER PROSPECTS IN SCIENCE ARE INCREASINGLY DISMAL FOR THE YOUNG BECAUSE OF EVER-LENGTHENING APPRENTICESHIPS, SCARCITY OF PERMANENT ACADEMIC POSITIONS, AND THE DIFFICULTY OF GETTING FUNDED. VIVID, THOROUGH, AND BOLD, *HOW ECONOMICS SHAPES SCIENCE* HIGHLIGHTS THE GROWING GAP BETWEEN THE HAVES AND HAVE-NOTS—ESPECIALLY THE VAST IMBALANCE BETWEEN THE BIOMEDICAL SCIENCES AND PHYSICS/ENGINEERING—AND OFFERS A PERSUASIVE VISION OF A MORE PRODUCTIVE, MORE CREATIVE RESEARCH SYSTEM THAT WOULD LEAD AND BENEFIT THE WORLD.

EVOLUTION CHALLENGES KARL S. ROSENGREN 2012-04-23 A RECENT POLL REVEALED THAT ONE IN FOUR AMERICANS BELIEVE IN BOTH CREATIONISM AND EVOLUTION, WHILE ANOTHER 41% BELIEVE THAT CREATIONISM IS TRUE AND EVOLUTION IS FALSE. A MINORITY (ONLY 13%) BELIEVE ONLY IN EVOLUTION. GIVEN THE WIDESPREAD RESISTANCE TO THE IDEA THAT HUMANS AND OTHER ANIMALS HAVE EVOLVED AND GIVEN THE ATTENTION TO THE ONGOING DEBATE OF WHAT SHOULD BE TAUGHT IN PUBLIC SCHOOLS, ISSUES RELATED TO THE TEACHING AND LEARNING OF EVOLUTION ARE QUITE TIMELY. **EVOLUTION CHALLENGES: INTEGRATING RESEARCH AND PRACTICE IN TEACHING AND LEARNING ABOUT EVOLUTION GOES BEYOND THE SCIENCE VERSUS RELIGION DISPUTE TO ASK WHY EVOLUTION IS SO OFTEN REJECTED AS A LEGITIMATE SCIENTIFIC FACT, FOCUSING ON A WIDE RANGE OF COGNITIVE, SOCIO-CULTURAL, AND MOTIVATIONAL FACTORS THAT MAKE CONCEPTS SUCH AS EVOLUTION DIFFICULT TO GRASP. THE VOLUME BRINGS TOGETHER RESEARCHERS WITH DIVERSE BACKGROUNDS IN COGNITIVE DEVELOPMENT AND EDUCATION TO EXAMINE CHILDREN'S AND ADULTS' THINKING, LEARNING, AND MOTIVATION, AND HOW ASPECTS OF REPRESENTATIONAL AND SYMBOLIC KNOWLEDGE INFLUENCE LEARNING ABOUT EVOLUTION. THE BOOK IS ORGANIZED AROUND THREE MAIN CHALLENGES INHERENT IN TEACHING AND LEARNING EVOLUTIONARY CONCEPTS: FOLK THEORIES AND CONCEPTUAL BIASES, MOTIVATIONAL AND EPISTEMOLOGICAL BIASES, AND EDUCATIONAL ASPECTS IN BOTH FORMAL AND INFORMAL SETTINGS. COMMENTARIES ACROSS THE THREE MAIN THEMES TIE THE BOOK TOGETHER THEMATICALLY, AND CONTRIBUTORS PROVIDE IDEAS FOR FUTURE RESEARCH AND METHODS FOR IMPROVING THE MANNER IN WHICH EVOLUTIONARY CONCEPTS ARE CONVEYED IN THE CLASSROOM AND IN INFORMAL LEARNING EXPERIENCES. EVOLUTION CHALLENGES IS A UNIQUE TEXT THAT EXTENDS FAR BEYOND THE TRADITIONAL EVOLUTION DEBATE AND IS AN INVALUABLE RESOURCE TO RESEARCHERS IN COGNITIVE DEVELOPMENT, SCIENCE EDUCATION AND THE PHILOSOPHY OF SCIENCE, SCIENCE TEACHERS, AND EXHIBIT AND CURRICULUM DEVELOPERS.**

HOW AI IMPACTS URBAN LIVING AND PUBLIC HEALTH JOS PAGIN 2019-10-08 THIS

OPEN ACCESS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 17TH INTERNATIONAL CONFERENCE ON STRING PROCESSING AND INFORMATION RETRIEVAL, ICOST 2019, HELD IN NEW YORK CITY, NY, USA, IN OCTOBER 2019. THE 15 FULL PAPERS AND 5 SHORT PAPERS PRESENTED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED FROM 24 SUBMISSIONS. THEY COVER TOPICS SUCH AS: E-HEALTH TECHNOLOGY DESIGN; WELL-BEING TECHNOLOGY; BIOMEDICAL AND HEALTH INFORMATICS; AND SMART ENVIRONMENT TECHNOLOGY.

TRANSPARENCY IN GLOBAL ENVIRONMENTAL GOVERNANCE AARTI GUPTA 2014-07-11 TRANSPARENCY IS INCREASINGLY SEEN AS PART OF THE SOLUTION TO A COMPLEX ARRAY OF ECONOMIC, POLITICAL, AND ETHICAL PROBLEMS IN AN INTERCONNECTED WORLD. IT IS OFTEN ASSUMED TO RESULT IN MORE ACCOUNTABLE AND EFFECTIVE GOVERNANCE. THE 'TRANSPARENCY TURN' IN GLOBAL ENVIRONMENTAL GOVERNANCE IN PARTICULAR IS EVIDENT IN A WIDE RANGE OF INTERNATIONAL AGREEMENTS, VOLUNTARY DISCLOSURE INITIATIVES, AND PUBLIC-PRIVATE PARTNERSHIPS. THIS IS THE FIRST BOOK TO SCRUTINISE THIS TRANSPARENCY TURN CRITICALLY, AND TO INVESTIGATE WHETHER IT IS A BROADLY TRANSFORMATIVE FORCE OR PLAYS A MORE LIMITED, INSTRUMENTAL ROLE.

MIND FIXERS: PSYCHIATRY'S TROUBLED SEARCH FOR THE BIOLOGY OF MENTAL ILLNESS ANNE HARRINGTON 2019-04-16 MIND FIXERS TELLS THE HISTORY OF PSYCHIATRY'S QUEST TO UNDERSTAND THE BIOLOGICAL BASIS OF MENTAL ILLNESS AND ASKS WHERE WE NEED TO GO FROM HERE. IN MIND FIXERS, ANNE HARRINGTON, AUTHOR OF *THE CURE WITHIN*, EXPLORES PSYCHIATRY'S REPEATEDLY FRUSTRATED STRUGGLE TO UNDERSTAND MENTAL DISORDER IN BIOMEDICAL TERMS. SHE SHOWS HOW THE STALLING OF EARLY TWENTIETH CENTURY EFFORTS IN THIS DIRECTION ALLOWED FREUDIANS AND SOCIAL SCIENTISTS TO INSIST, WITH SOME JUSTIFICATION, THAT THEY HAD BETTER WAYS OF ANALYZING AND FIXING MINDS. BUT WHEN THE FREUDIANS OVERREACHED, THEY DROVE PSYCHIATRY INTO A STATE OF CRISIS THAT A NEW "BIOLOGICAL REVOLUTION" WAS MEANT TO ALLEVIATE. HARRINGTON SHOWS HOW LITTLE THAT BIOLOGICAL REVOLUTION HAD TO DO WITH BREAKTHROUGHS IN SCIENCE, AND WHY THE FIELD HAS FALLEN INTO A STATE OF CRISIS IN OUR OWN TIME. MIND FIXERS MAKES CLEAR THAT PSYCHIATRY'S WAXING AND WANING BIOLOGICAL ENTHUSIASMS HAVE BEEN SHAPED NOT JUST BY DEVELOPMENTS IN THE CLINIC AND LAB, BUT ALSO BY A SURPRISING RANGE OF SOCIAL FACTORS, INCLUDING IMMIGRATION, WARFARE, GRASSROOTS ACTIVISM, AND ASSUMPTIONS ABOUT RACE AND GENDER. GOVERNMENT PROGRAMS DESIGNED TO EMPTY THE STATE MENTAL HOSPITALS, ACRID RIVALRIES BETWEEN DIFFERENT FACTIONS IN THE FIELD, INDUSTRY PROFIT MONGERING, CONSUMERISM, AND AN UNCITICAL MEDIA HAVE ALL CONTRIBUTED TO THE STORY AS WELL. IN FOCUSING PARTICULARLY ON THE SEARCH FOR THE BIOLOGICAL ROOTS OF SCHIZOPHRENIA, DEPRESSION, AND BIPOLAR DISORDER, HARRINGTON UNDERSCORES THE HIGH HUMAN STAKES FOR THE MILLIONS OF PEOPLE WHO HAVE SOUGHT MEDICAL ANSWERS FOR THEIR MENTAL SUFFERING. THIS IS NOT JUST A STORY ABOUT DOCTORS AND SCIENTISTS, BUT ABOUT COUNTLESS ORDINARY PEOPLE AND THEIR LOVED ONES. A CLEAR-EYED, EVENHANDED, AND YET PASSIONATE TOUR DE FORCE, MIND FIXERS RECOUNTS THE PAST AND PRESENT STRUGGLE TO MAKE MENTAL ILLNESS A BIOLOGICAL PROBLEM IN ORDER TO LAY THE GROUNDWORK FOR CREATING A BETTER FUTURE, BOTH FOR THOSE WHO SUFFER AND FOR THOSE WHOSE JOB IT IS TO CARE FOR THEM.

CONSERVATION EDUCATION AND OUTREACH TECHNIQUES SUSAN KAY JACOBSON 2015 THE CONSERVATION OF BIOLOGICAL DIVERSITY DEPENDS ON PEOPLE'S KNOWLEDGE AND ACTIONS. THIS BOOK PRESENTS THE THEORY AND PRACTICE FOR CREATING EFFECTIVE EDUCATION AND OUTREACH PROGRAMMES FOR CONSERVATION. THE AUTHORS DESCRIBE AN EXCITING ARRAY OF TECHNIQUES FOR ENHANCING SCHOOL RESOURCES, MARKETING ENVIRONMENTAL MESSAGES, USING SOCIAL MEDIA, DEVELOPING PARTNERSHIPS FOR CONSERVATION, AND DESIGNING ON-SITE PROGRAMMES FOR PARKS AND COMMUNITY CENTRES. VIVID CASE STUDIES FROM AROUND THE WORLD ILLUSTRATE TECHNIQUES AND DESCRIBE PLANNING, IMPLEMENTATION, AND EVALUATION PROCEDURES, ENABLING READERS TO IMPLEMENT THEIR OWN NEW IDEAS EFFECTIVELY. **CONSERVATION EDUCATION AND OUTREACH TECHNIQUES**, NOW IN ITS SECOND EDITION AND UPDATED THROUGHOUT, INCLUDES TWELVE CHAPTERS ILLUSTRATED WITH NUMEROUS PHOTOGRAPHS SHOWING EDUCATION AND OUTREACH PROGRAMMES IN ACTION, EACH INCORPORATING AN EXTENSIVE BIBLIOGRAPHY. HELPFUL TEXT BOXES PROVIDE PRACTICAL TIPS, GUIDELINES, AND RECOMMENDATIONS FOR FURTHER EXPLORATION OF THE CHAPTER TOPICS. THIS BOOK WILL BE PARTICULARLY RELEVANT TO CONSERVATION SCIENTISTS, RESOURCE MANAGERS, ENVIRONMENTAL EDUCATORS, STUDENTS, AND CITIZEN ACTIVISTS. IT WILL ALSO SERVE AS A HANDY REFERENCE AND A COMPREHENSIVE TEXT FOR A VARIETY OF NATURAL RESOURCE AND ENVIRONMENTAL PROFESSIONALS.

PRACTICAL ENVIRONMENTAL ETHICS A. PABLO IANNONE 2016-05-31 THIS ESSENTIAL VOLUME FOR PROFESSIONALS AND ACADEMICS PROPOSES A NEW APPROACH TO ENVIRONMENTAL ETHICS AND TO ENVIRONMENTAL POLICYMAKING IN PARTICULAR. ALL TOO FREQUENTLY, POLICY MAKERS FOCUS ONLY ON WHAT ENDS SHOULD IDEALLY BE PURSUED, IGNORING WHETHER THE MEANS HAVE ANY NEGATIVE UNINTENDED CONSEQUENCES. SUCH APPROACHES TEND TO HAVE A FOCUS ON CONSEQUENTIALIST, DEONTOLOGICAL, VIRTUE-CENTERED, OR CARE-BASED THEORIES WHICH MAKES THEM TOO SINGULARLY-MINDED. THEY ARE NOT SUITABLE FOR DEALING WITH THE COMPLEXITIES OF LIFE AND, ESPECIALLY, ENVIRONMENTAL POLICY MAKING. **PRACTICAL ENVIRONMENTAL ETHICS** DISTINGUISHES BETWEEN CASES IN WHICH ENTIRE ECOSYSTEMS ARE AT RISK, THREATENING ENTIRE SOCIETIES WHERE COLLECTIVE CONSEQUENCES TAKE PRECEDENCE AND CASES IN WHICH WHOLE ECOSYSTEMS ARE NOT AT RISK WHERE INDIVIDUAL RIGHTS OR DUTIES TAKE PRECEDENCE. IN DOING THIS, IANNONE DISCUSSES ENVIRONMENTAL CONTROVERSIES NOT ONLY PHILOSOPHICALLY, BUT IN THE COMPLEX CONTEXTS AT WORK WITHIN POLICY-MAKING AND DECISION-MAKING COMMUNITIES. THIS ALLOWS FOR CONSIDERATION OF CRUCIAL CONCEPTS USED IN MORALITY, BIOLOGY, TECHNOLOGY, BUSINESS, ECONOMICS, POLITICS, AND PHILOSOPHY. RELYING ON NUMEROUS ACTUAL ENVIRONMENTAL CASES, IANNONE HELPS FORMULATE REALISTIC WAYS OF LOGICALLY AND ETHICALLY DETERMINING HOW ENVIRONMENTAL CONTROVERSIES SHOULD BE ADDRESSED. ULTIMATELY, HE PROPOSES SOLUTIONS THAT POLICY MAKERS AND ANYONE INTERESTED IN THIS TOPIC MAY UTILIZE TO CLARIFY ENVIRONMENTAL ISSUES AND DETERMINE HOW TO BEST DEAL WITH THEM FOR THE GREATER GOOD.

WHAT TO EXPECT WHEN NO ONE'S EXPECTING JONATHAN V. LAST 2013 CHALLENGES MAINSTREAM BELIEFS ABOUT OVERPOPULATION AND CITES THE CONSEQUENCES OF A RAPIDLY DEPOPULATING WORLD.

NANOTECHNOLOGY AND THE PUBLIC SUSANNA HORNIG PRIEST 2017-12-19 FROM NUCLEAR POWER TO GENE THERAPY TO THE AUTOMOBILE, HISTORY SHOWS THAT IT IS USEFUL TO ENCOURAGE AND FACILITATE PUBLIC DISCUSSION ABOUT NEW TECHNOLOGIES AND THEIR POTENTIAL DANGERS. PART OF THE SERIES PERSPECTIVES IN NANOTECHNOLOGY, NANOTECHNOLOGY AND THE PUBLIC: RISK PERCEPTION AND RISK COMMUNICATION ASSESSES RESULTS FROM FOCUS GROUPS, INTERVIEWS, AND OTHER RESOURCES TO PROVIDE A MORE NUANCED UNDERSTANDING OF HOW NON-EXPERTS PERCEIVE NANOTECHNOLOGY AND WHAT THEY EXPECT FROM IT. INCLUDES A SERIES OF SPECIAL ESSAYS BY SOCIAL SCIENTISTS AND HUMANITIES SCHOLARS WHO HAVE STUDIED NANOTECHNOLOGY AND SOCIETY FROM DIFFERENT PERSPECTIVES ASSESSING HOW "ORDINARY" PEOPLE FORM OPINIONS ABOUT NEW TECHNOLOGIES AND THEIR ADOPTION, THIS BOOK ADDRESSES THE ROLE OF MEDIA MESSAGES

AND PRE-EXISTING VALUES IN THIS PROCESS, AS WELL AS HOW RISKS CAN BECOME EITHER AMPLIFIED OR WEAKENED ALONG THE WAY AS A RESULT OF SOCIAL MECHANISMS. USING SOLID THEORY AND RESEARCH TO BACK PRESENTED CONCEPTS ON RISK PERCEPTION AND COMMUNICATION, THE AUTHOR DISCUSSES THE POTENTIAL FOR USING INFORMED CONSENT, LABELS, AND OTHER TYPES OF CONSUMER WARNINGS THAT HAVE PROVED TO BE EFFECTIVE IN AREAS OTHER THAN NANO. AN IN-DEPTH INVESTIGATION INTO THE CONCEPT OF MASS COMMUNICATION PRACTICES, THIS BOOK EXPLORES THE PARADOX OF WHY, DESPITE ITS APPEAL AND PROMISE, PUBLIC ENGAGEMENT HAS HAD ONLY LIMITED SUCCESS IN THE DIALOGUE ON NANOTECHNOLOGY. AIMED AT FINDING SOLUTIONS, THE BOOK'S RESULTING CONCLUSIONS ARE CONSIDERED IN THE CONTEXT OF BROADER ISSUES. THESE INCLUDE HOW SOCIETY MAKES UP ITS COLLECTIVE MIND ABOUT TECHNOLOGY ADOPTION AND ALL THE PROFOUND QUESTIONS THIS RAISES, IN TERMS OF DEMOCRATIC THEORY.