Pollution Wikipedia

This book presents a practical framework for the application of big data, cloud, and pervasive and complex systems to sustainable solutions for urban environmental challenges. It covers the technologies, potential, and possible and impact of big data on energy efficiency and the urban environment. The book first introduces key aspects of big data, cloud services, pervasive computing, and mobile technologies from a pragmatic design perspective, including sample open source firmware. Cloud services, mobile and embedded platforms, interfaces, operating system design methods, networking, and middleware are all considered. The authors then explore in detail the framework, design principles, architecture and key components of developing energy systems to support sustainable urban environments. The included case study provides a pathway to improve the eco-efficiency of urban transport, demonstrating how to design an energy efficient next generation urban navigation system by leveraging vast cloud data sets on user-behavior. Ultimately, this resource maps big data’s pivotal intersection with rapid global urbanization along the path to a sustainable future.

Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 59. Chapters: Acid rain, Bioaccumulation, Environmental remediation, Environmental impact of pharmaceuticals and personal care products, Stormwater, Soil contamination, Dutch standards, Asbestosis, Neuroplastic effects of pollution, Toxic waste, Electrical resistance heating remediation, Regulation and monitoring of pollution, Paper pollution, Biofouling, Thermal pollution, Biofilter, Kessler syndrome, Measures of pollutant concentration, Land pollution, Inhalation exposure, Biomagnification, EMF measurements, Environmental impact of paint, Blue ice, List of least carbon efficient power stations, Brownfield status, Tradable smoking pollution permits, Mathematical exposure modeling, Marginal Abatement Cost, Polluter pays principle, Ozone Action Day, National Pollutant Inventory, Zadorra river's pollution, Embedded emissions, Regenerative thermal oxidizer, Point source pollution, Noxer block, Area source, Pollution insurance, Pollution prevention, Panel edge staining, Unpleasant odor, Toxics use reduction, Firewater, Visual pollution, Pneumatic barrier, Pneumatic fracturing, Bioconcentration factor, Health effect, Volume source, Aarhus Protocol on Persistent Organic Pollutants, Low emission vehicle, Non-road emissions, Phytotreatment, Basic precipitation, Blackwater.

Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 80. Chapters: Orimulsion, POP Air Pollution Protocol, Sick building syndrome, Environmental impact of aviation, Particulates, Indoor air quality, Atmospheric dispersion modeling, Indoor bioaerosol, Aerotoxic syndrome, Emission standard, Flue-gas desulfurization, Air pollution dispersion terminology, Diesel exhaust, Roadway air dispersion modeling, Effects of the automobile on societies, Accidental release source terms, Mitigation of aviation's environmental impact, Flue gas stack, Air pollutant concentrations, Emissions & Generation Resource Integrated Database, Multi-effect Protocol, Useful conversions and formulas for air dispersion modeling, Arctic haze, Motor vehicle emissions, Mobile Emission Reduction Credit, Line source, Best available technology, Gas flare, Photoinitiator, TA Luft, Burn pit, New car smell, Flue gas emissions from fossil fuel combustion, Exhaust gas, Partnership for a New Generation of Vehicles, Low-emission zone, Air quality law, Fugitive emissions, Clean Air Act, Ventilation air methane thermal oxidizer, CALPUFF, Ozone Action Day, Climate Action Plan, Pollutant Standards Index, Liquid-to-gas ratio, Norwegian Institute for Air Research, Czech Hydrometeorological Institute, Fundamentals of Stack Gas Dispersion, Critical load, Wildland fire emission, Aerotoxic Association, Low-carbon emission, Mist, RIMPUFF, Criteria air contaminants, Council-certified Microbial Remediation Supervisor, Vapor intrusion, Dust abatement, Pollen count, Health Effects Institute, Urban dust dome, Decipol, Twomey effect.

Economic recessions, social networks, environmental damage in several large countries (eg. China, Brazil, U.S.), the Global Financial Crisis of 2007-2015 and cross-border spillovers continue to significantly affect economic systems, financial markets, social structures and environmental compliance worldwide. These have rekindled economists’ and policy-makers’ interest in the relationships among constitutions, risk regulation, foreign aid, political systems, government size, credit expansion and sustainable growth. Risk regulation remains highly ineffective as manifested by the failures of new financial regulations and government stimulus programs that were implemented during 2007-2020 in many developed countries and emerging markets countries. This book, the first of two volumes, addresses these issues in the context of the role of constitutional economics and economic psychology as tools for national and global sustainable growth and risk management. Furthermore, this volume analyzes the often symbiotic relationship between alternative sets of legal-institutional-constitutional rules that constrain the choices and activities of economic and political agents on one hand, and sustainable growth, financial regulation and the risk management of financial institutions on the other; and reviews the effects of constitutions and legal institutions on market dynamics (real estate; fixed-income, stocks; etc.) including volatility, market depth and liquidity. This book will help researchers develop better artificial intelligence and decision-systems models of geopolitical risk, public policy and international capital flows, all of which are increasingly relevant to investment managers, boards-of-directors and government officials.

Perfect for reluctant teen readers, the Orca Sports titles combine mystery and adventure with team sports such as hockey, baseball, football and soccer, and solo sports like scuba diving, running, sailing, horse racing and even race-car driving. Written by popular, award-winning writers such as Sigmund Brouwer and Nikki Tate, Orca Sports books engage young readers with exciting plots and easy-to-read language. The Orca Sports Resource Guide provides teachers with ideas for connecting each title in the series to the curriculum, the text and, most importantly, the students. Certain to encourage lively discussion in the classroom, the Orca Sports Resource Guide is a valuable tool for teachers who want to give their students the very best.

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Describes the laws, research and regulatory issues surrounding water conservation efforts, reviews the history of water management in Canada, Europe and the United States and offers a strategy to protect our most important natural resource.

This important book deals with the essential principles of resource and environmental economics, provides applications to contemporary issues in this field, and outlines and assesses policies being used or proposed for managing the use of environmental and natural resources. Covering specific contemporary topics such as agriculture and the environment, water use, greenhouse gas management, biodiversity conservation, tourism and the environment, and environmental economics and health, leading issues in resource and environmental economics are outlined and analyzed in an innovative manner. Institutional economics (both new and traditional) is applied and compared with other approaches such as neoclassical economics, behavioral economics and the Austrian School of Economics. This heterogeneous, multi-perspective approach enables problems to be considered from several different angles, thus enhancing the reader's comprehension of the subject matter. Furthermore, using minimal technical jargon, the book takes into account aspects of modern economic analysis such as the costs of and constraints on decision-making and the transaction costs involved in policy implementation.

Are natural resources really so limited that, as Mahatma Gandhi once famously said, “Earth provides enough to satisfy every man’s need, but not every man’s greed”? (TE 2012) This limiting view of natural resources can be contrasted with an opposing view by John Maynard Keynes, who “summarized Say’s Law as ‘supply creates its own demand’” but then “turned Say’s Law on its head in the 1930s by declaring that demand creates its own supply,” so whenever a demand exists, there will be resources to create the supply. (EN 2012) Contrary to these opposing views (and other ones as will be discussed in the book), natural resources, in relation to both diversity and discontinuity are neither possible or impossible, nor desirable or undesirable to the extent that the respective ideologues on different sides would

like us to believe. Needless to say, this challenge to the opposing views of natural resources does not mean that natural resources are unimportant, or that those interdisciplinary fields (related to natural resources) like conservation biology, environmental management, ecological economics, political ecology, environmental ethics, adaptive management, genetic engineering, Malthusianism, and so on are not worth studying. Of course, neither of these extreme views is reasonable. Rather, this book offers an alternative, better way to understand the future of natural resources, especially in the dialectic context of diversity and discontinuity—while learning from different approaches in the literature but without favoring any one of them or integrating them, since they are not necessarily compatible with each other. More specifically, this book offers a new theory (that is, the resilient theory of natural resources) to go beyond the existing approaches in a novel way. If successful, this seminal project is to fundamentally change the way that we think about natural resources in relation to diversity and discontinuity from the combined perspectives of the mind, nature, society, and culture, with enormous implications for the human future and what the author originally called its “post-human” fate.

The limitation of fossil fuels has challenged scientists and engineers to search for alternative energy resources that can meet future energy demand. Renewable Energy System Design is a valuable reference focusing on engineering, design, and operating principles that engineers can follow in order to successfully design more robust and efficient renewable energy systems. Written by Dr. Ziyad Salameh, an expert with over thirty years of teaching, research, and design experience, Renewable Energy System Design provides readers with the "nuts and bolts" of photovoltaic, wind energy, and hybrid wind/PV systems. It explores renewable energy storage devices with an emphasis on batteries and fuel cells and emerging sustainable technologies like biomass, geothermal power, ocean thermal energy conversion, solar thermal, and satellite power. Renewable Energy System Design is a must-have resource that provides engineers and students with a comprehensive yet practical guide to the characteristics, principles of operation, and power potential of the most prevalent renewable energy systems. Explains and demonstrates design and operating principles for solar, wind, hybrid and emerging systems with diagrams and examples Utilizes case studies to help engineers anticipate and overcome common design challenges Explores renewable energy storage methods particularly batteries and fuel cells and emerging renewable technologies

An insightful look at the American environmental crisis and emerging solutions from the heartland to the coasts in the era of global climate change Eminent ecologist Jeremy B. C. Jackson and award-winning journalist Steve Chapple traveled the length of the Mississippi River interviewing farmers, fishermen, scientists, and policymakers to better understand the mounting environmental problems ravaging the United States. Along their journey, which quickly expands to California, Florida, and New York, the pair uncovered surprising and profound connections between ecological systems and environmental crises across the country. Artfully weaving together independent research and engaging storytelling, Jackson and Chapple examine the looming threats from recent hurricanes and fires, industrial agriculture, river mismanagement, extreme weather events, drought, and rising sea levels that are pushing the country toward the breaking point of ecological and economic collapse. Yet, despite these challenges, the authors provide optimistic and practical solutions for addressing these multidimensional issues to achieve greater environmental stability, human well-being, and future economic prosperity. With a passionate call to action, they look hopefully toward emerging and achievable solutions to preserve the country's future.

The method used in the following chapters of the book is referred to in mathematics as an axiomatic approach. From the analysis of empirical data of the Kepler satellite hypotheses are drawn, which are called approaches and axioms. The derived statements are formulated as sentences to which certain probabilities are assigned. All axioms and sentences lead to an overall presentation of the situation, which can then be used as a working hypothesis. Namely as a working hypothesis regarding the abundance of habitable, Earth-like planets, as well as life, intelligence and civilizations in our galaxy. It is unprobable that we are alone in the universe. It is more probable that we are not alone.

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Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 70. Chapters: Environmental Modification Convention, POP Air Pollution Protocol, ELDIS, Biodefense, Committee on Climate Change Science and Technology Integration, Conservation designation, Nitrate Vulnerable Zone, Environmental issues in film and television, Heli-logging, Environmental movement in South Africa, Green gross domestic product, Hot stain, Sinharaja Forest Reserve, Ecosystem-based management, Tarball, Eco-Management and Audit Scheme, Myles and Milo Dunphy, Maryland Wildland, Ecological design, Montane Cordillera Ecozone, Muslim Seven Year Action Plan on Climate Change, Oxygenation, DDT in the United States, Green state, Institute of Hydrology, Meteorology and Environmental Studies, Bioconversion, Anti-environmentalism, Texas Commission on Environmental Quality, Fourth International Conference on Environmental Education, Ministry of Environment Protection and Natural Resources, Carbon diet, Wildlife refuge, Pollution in California, Habitats Directive, Marine reserve, Ethical living, Ammoniacal nitrogen, Freecycling, State of the Environment, Environmental communication, Conservation development, Lamella clarifier, Environmental factor, Bioaugmentation, Environmental management scheme, Los Guatuzos Wildlife Refuge, Environment of Wyoming, NCEP/NCAR Reanalysis, New Energy for America, Control of Major Accident Hazards Regulations 1999, Biodiversity banking, PAN Parks, Environment of Tennessee, Birds Directive, Regrading, Public Interest Environmental Law Conference, Criteria air contaminants, Green development, Exotic pollution, Treatment wetland, The Land is Ours, Lifeboat ethics, Regional Forest Agreement, St Andrews Prize for the Environment, London Electrobus Company, Environmental organization, Landfill diversion, Green tree reservoir, Exploitation of natural resources, Coliform index, German Green Belt, Joint...

Bioremediation is a rapidly advancing field and the technology has been applied successfully to remediate many contaminated sites. The goal of every soil remediation method is to enhance the degradation, transformation, or detoxification of pollutants and to protect, maintain and sustain environmental quality. Advances in our understanding of the ecology of microbial communities capable of breaking down various pollutants and the molecular and biochemical mechanisms by which biodegradation occurs have helped us in developing practical soil bioremediation strategies. Chapters dealing with the application of biological methods to soil remediation are contributed from experts – authorities in the area of environmental science including microbiology and molecular biology – from academic institutions and industry.

Thoroughly updated new edition of this undergraduate textbook examines environmental pollution from our homes to the global environment.

This book re-examines the relationships between stakeholders, governance and corporate social responsibility. It address different aspects of these relationships from a wide international and interdisciplinary perspective.

REVISED 7/30/2021 EDITION This book clearly defines prophecy and explains how specific biblical messages can be linked to the crises that are hitting our world — global warming, climate change, dead zones in the ocean, polar ice melting, earthquakes, hurricanes, ocean acidification, and many other calamities. Mr. Alex Domenech comes across as an expert in biblical studies, demonstrating an impeccable understanding of the history of the Bible, its composition, and the historical, cultural, and religious contexts in which the scriptures were composed. The author

also demonstrates great mastery of other disciplines related to the study of the Bible. This isn't a book to be read quickly. It's a study that will transform the way we approach the sacred scriptures, and readers will enjoy the concise definitions the author offers of complex terms. The Domenech Bible Interpretations will appeal to readers who are interested in the truth about the sacred scriptures, and those who are curious about the relationship between the Bible and contemporary times (Reviewed By Romuald Dzemo for Readers' Favorite, 2018).
The 12 chapters comprehensively cover the development and advances on emerging carbon-based nanocomposites for wastewater applications and discuss the following topics: The emerging carbon-based nanocomposites for remediation of heavy metals and organic pollutants from wastewater; Functional green carbon nanocomposites for heavy-metal treatment in water; Green nanocomposites and their applications in environmentally-friendly carbon nanomaterials; Carbon-based nanocomposites as heterogeneous catalysts for organic reactions in environment-friendly solvents; Carbonaceous nanomaterials for arsenic and chromium removal from waste water; Biochar-based adsorbents for the removal of organic pollutants from aqueous systems; Describes carbon nanomaterials based green nanocomposites; The removal of trihalomethanes from water using nanofiltration membranes and The transformation of wide bandgap semiconductors for visible-light photocatalytic degradation of organic dyes; Nanocomposite materials as electrode materials in microbial fuel cells for the removal of water pollutants; Plasmonic smart nanosensors for the determination of environmental pollutants.
Plastics have transformed every aspect of our lives. Yet the very properties that make them attractive--they are cheap to make, light, and durable--spell disaster when trash makes its way into the environment. Plastic Soup: An Atlas of Ocean Pollution is a beautifully-illustrated survey of the plastics clogging our seas, their impacts on wildlife and people around the world, and inspirational initiatives designed to tackle the problem. With striking photography and graphics, Plastic Soup brings plastic pollution to brilliant life for readers. According to some estimates, if we continue on our current path, the oceans will contain more plastic than fish by the year 2050. Created to inform and inspire readers, Plastic Soup is a critical tool in the fight to reverse this trend.
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The book extensively covers the law relating to this field along with necessary international conventions and Jurisprudence evolved by the Indian Judiciary and is a useful reference for practicing lawyers, academicians, law students, social activists and researchers. The Environmental Law in India is a comprehensive and exhaustive publication on the field of Environmental Law. The Book exhaustively deals with the constitutional mandate for environmental protection, judicial review of decisions.
Foundation of Information Technology is a judiciously developed series of textbooks on the syllabus devised by the Central Board of Secondary Education for classes 9 and 10. Keeping in mind the grasping power of the students, the books focus on the relevant theory and its applications and practical learning through sequential steps, rather than the elaborate textual study for chapters. Each book is divided into chapters that are self-explanatory and encompass the relevant concepts of the topic concerned. The books do not contain any repetitive content and hence are crisp and condensed. The exercises at the end of the chapters call for active and attentive participation of the learners thereby testing their knowledge and helping in self-assessment. The CCE format of the questions appearing in CBSE exam papers has been followed in developing exercises in the book. There are separate books on MS Office 2010 and OpenOffice in class 9.
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There is a lot of confusion in alternative agricultural systems being promoted in India and elsewhere. Though, a large amount of valuable information is generated, it is very much scattered and becomes difficult to the readers to locate them under one roof. Hence, in this book an attempt has been made to compile and present the available information on sustainable agriculture under various chapte The book is sub-divided into nine chapters which starts with an introductory picture covering the scope, need and meaning of sustainable agriculture. It gives the readers a clean understanding of the definition of the term sustainable and its usage in a broadened horizon. Owing to its systematic, in-depth and critical arrangement of the valuable information, upon completing the book, the reader will have a feeling of an enrichment of his knowledge in the field of sustainable agriculture in its right perspective.
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Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 54. Chapters: Oil spill, Marine pollution, Regulation of ship pollution in the United States, Cruise ship pollution in the United States, Marine debris, Dead zone, Project Kaisei, Environmental impact of shipping, Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, MARPOL 73/78, Operation CHASE, Radioactive waste dumping by the 'Ndrangheta, Kamilo Beach, Marine Protection, Research, and Sanctuaries Act of 1972, Plastic particle water pollution, Oil Pollution Act of 1990, Barcelona Convention, PEMSEA, Tarball, Syringe Tide, Crude oil washing, Convention for the Protection of the Marine Environment of the North-East Atlantic, Framework Convention for the Protection of the Marine Environment of the Caspian Sea, Operation Geranium, Convention for the Prevention of Marine Pollution by Dumping from Ships and Aircraft, Nokomis 3, Coal Oil Point seep field, Merchant Shipping Act 2006, Act to Prevent Pollution from Ships, Marine environmental protection.

The book addresses the subjects related to the selected aspects of pollutants emission, monitoring and their effects. The most of recent publications concentrated on the review of the pollutants emissions from industry, especially power sector. In this one emissions from opencast mining and transport are addressed as well. Beside of SOx and NOx emissions, small particles and other pollutants (e.g. VOC, ammonia) have adverse effect on environment and human being. The natural emissions (e.g. from volcanoes) has contribution to the pollutants concentration and atmospheric chemistry governs speciation of pollutants, as in the case of secondary acidification. The methods of ambient air pollution monitoring based on modern instrumentation allow the verification of dispersion models and balancing of mass emissions. The comfort of everyday human's activity is influenced by indoor and public transport vehicles interior air contamination, which is effected even by the professional appliances operation. The outdoor pollution leads to cultural heritage objects deterioration, the mechanism are studied and the methods of rehabilitation developed. However to prevent emissions the new technologies are being developed, the new class of these technologies are plasma processes, which are briefly reviewed at the final part of the book.

This book discusses the convergence of global problems and the shortcomings of our sustainable development model. The author argues possible solutions, such as the Inclusive Sustainable Development Theory against unlimited expansion and materialism in global development, and the Hexagon on Partnership Model to protect global food, energy, and water security.

What is happening to modern societies? Everywhere one looks one finds signs of moral and social decay. In the US today, a reincarnation of the 1930s Nazi Brownshirts-aided and abetted by demented billionaires and euphemistically calling themselves Antifa-are marching in the streets, attacking any who dare to disagree with them, destroying private and public property, proclaiming they are what they are not, and sowing sedition everywhere they go with seeming impunity. This social m

Can transportation really have such a destructive impact on society that, as Jay Holtz Kay (1998) once forcefully wrote, with the automobile industry as an example, that “the modern consequences of heavy automotive use contribute to the use of non-renewable fuels, a dramatic increase in the rate of accidental death, social isolation, the disconnection of community, the rise in obesity, the generation of air and noise pollution, urban sprawl, and urban decay”? (WK 2012) This negative expectation from transportation, with the automobile industry as an example here, can be contrasted with an opposing (positive) expectation in the old “glory days” when, as Skip McGoun (2012) thus reminded us, “we have sung songs about the glory and wonder that surrounds the very concept of the car. Examples of this range from the 1909 tune, ‘In My Merry Oldsmobile,’ to what is considered to be the first rock and roll song, ‘Rocket 88,’ in 1949. . . . Motion pictures have portrayed . . . expensive sleek sports cars . . . associated with wealth and success. . . . One commercial described Hell as being a place where a teenager would have to drive a minivan!” Contrary to these opposing expectations (and other views as will be discussed in the book), transportation, in relation to both networks and operations, is neither possible or impossible, nor desirable or undesirable, to the extent that the respective ideologues on different sides would like us to believe. This challenge to the opposing expectations from transportation does not mean that transportation is useless, or that those interdisciplinary fields (related to transportation studies) like urban planning, environmental sustainability, migration, tourism, transport economics, traffic engineering, transportation technology, energy efficiency, the tragedy of the commons, and so on are unimportant. Needless to say, neither of these extreme views is reasonable. Rather, this book offers an alternative, better way to understand the future of transportation, especially in the dialectic context of networks and operations—while learning from different approaches in the literature but without favoring any one of them or integrating them, since they are not necessarily compatible with each other. More specifically, this book offers a new theory (that is, the panoramic theory of transportation) to go beyond the existing approaches in a novel way. If successful, this seminal project is to fundamentally change the way that we think about transportation in relation to networks and operations from the combined perspectives of the mind, nature, society, and culture, with enormous implications for the human future and what the author originally called its “post-human” fate.

This book examines the unsatisfactory situation in the Arab world where there is a pressing need to address poverty, unemployment, political instability, corruption, and the existential threat of climate change. The authors analyze the relationships between universities and governments in the Arab world, and make recommendations that will help develop intellectual capacity and thereby aid the economic and social transitions so desperately needed in all Arab countries. Countries aspiring to participate fully in the global knowledge economy require dynamic university sectors operating in concert with governments that actively promote high-quality education and research and foster innovation and entrepreneurship. Successful university-government relationships can be complex and are continually evolving. .

As industry develops globally, environmental pollution grows to be an increasingly serious problem with each passing year. While there are many things that individuals on every level of power can do to mitigate the harm done to the environment, environmental remediation is a step to take to save our soil and water resources. As this problem is ongoing, it is essential to be knowledgeable in the emerging techniques made within the field of environmental remediation. The Research Anthology on Emerging Techniques in Environmental Remediation is a comprehensive resource on the emerging techniques and developments made within the field of environmental remediation. With global contributing authors, this book explores environmental remediation within diverse settings and international standards. Covering topics such as pollution and contamination, nanotechnology, and agriculture, this book is an essential reference for scientists, chemists, environmentalists, government officials, professors, students, researchers, conservationists, and academicians.

Within all areas of transportation, solutions for economical and environmentally friendly technology are being examined. Fuel consumption, combustion processes, control and limitation of pollutants in the exhaust gas are technological problems, for which guidelines like 98/69/EC and 99/96 determine the processes for the reduction of fuel consumption and exhaust gas emissions. Apart from technological solutions, the consequences of international legislation and their effects on environmental and climate protection in the area of the transportation are discussed.

In So Long Constipation, Part 1 you will learn how to eliminate your constipation by learning what causes it and how this comes about. You will learn about the relationship between our daily environment and the gut. You will discover, in simple detail, how things like stress, industrial toxins and our modern diet and lifestyle influence the delicate balance of our mind-body system. You will familiarize yourself with the main aspects of this delicate balance in relation to gut function.