

Environmental Science

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Prescribed (controlled) burns

The practice of burning area of forest or grassland under carefully controlled conditions to improve the health of ecosystems, return them to a more natural state, reduce fuel loads, and help prevent uncontrolled catastrophic fires.

Salvage logging

The removal of dead trees following a natural disturbance.

Sustainable forest certification

A form of ecolabeling that identifies timber products that have been produced using sustainable methods.

National Park

A scenic area set aside for recreation and enjoyment by the public and managed by the National Park Service.

Wilderness area

Federal land that is designated off-limits to development of any kind but is open to public recreation, such as hiking, nature study, and other activities that have minimal impact on the land.

World heritage site

A location internationally designated by the United Nations for its cultural or natural value.

Peace park

A transboundary park intended to help ease tensions by acting as a buffer between nations that have quarreled over boundary disputes.

The SLOSS (Single Large or Several Small) dilemma

The debate over whether it is better to make reserves large in size and few in number or many in number but small in size.

Corridor

A passageway of protected land established to allow animals to travel between islands of protected habitat.

Environmental Science Chapter 18

Stanley E. Manahan



Environmental Science Chapter 18:

Environmental Sciences Notes for Assistant Professor UGC NTA NET Exam Mocktime Publication, 101-01-01 Syllabus 1

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radiation exposure and radiation standards radiation protection 26 Solid Waste Characteristics and Logistics Solid Waste types and sources Solid waste characteristics generation rates solid waste components proximate and ultimate analyses of solid wastes Solid waste collection and transportation container systems hauled and stationary layout of collection routes transfer stations and transportation 27 Solid Waste Processing Recovery and Disposal Solid waste processing and recovery Recycling recovery of materials for recycling and direct manufacture of solid waste products Electrical energy generation from solid waste Fuel pellets Refuse derived fuels composting and vermicomposting biomethanation of solid waste Disposal of solid wastes sanitary land filling and its management incineration of solid waste 28 Hazardous E waste Fly Ash and Plastic Waste Management Hazardous waste Types characteristics and health impacts Hazardous waste management Treatment Methods neutralization oxidation reduction precipitation solidification stabilization incineration and final disposal e waste classification methods of handling and disposal Fly ash sources composition and utilisation Plastic waste sources consequences and management 29 Environmental Assessment and Management Systems Aims and objectives of Environmental Impact Assessment EIA Environmental Impact Statement EIS and Environmental Management Plan EMP EIA Guidelines Impact Assessment Methodologies Procedure for reviewing EIA of developmental projects Life cycle analysis cost/benefit analysis Guidelines for Environmental Audit Environmental Planning as a part of EIA and Environmental Audit Environmental Management System Standards ISO14000 series 30 EIA Notification Eco labeling and Risk Assessment EIA Notification 2006 and amendments from time to time Eco labeling schemes Risk Assessment Hazard identification Hazard accounting Scenarios of exposure Risk characterization and Risk management 31 Core Environmental Legislation in India Overview of Environmental Laws in India Constitutional provisions in India Article 48A and 51A Wildlife Protection Act 1972 amendments 1991 Forest Conservation Act 1980 Indian Forest Act Revised 1982 Biological Diversity Act 2002 Water Prevention and Control of Pollution Act 1974 amended 1988 and Rules 1975 Air Prevention and Control of Pollution Act 1981 amended 1987 and Rules 1982 Environmental Protection Act 1986 and Rules 1986 Motor Vehicle Act 1988 32 Specific Waste Management and Safety Rules in India The Hazardous and Other Waste Management and Transboundary Movement Rules 2016 The Plastic Waste Management Rules 2016 The Bio Medical Waste Management Rules 2016 The Solid Waste Management Rules 2016 The e waste Management Rules 2016 The Construction and Demolition Waste Management Rules 2016 The Manufacture Storage and Import of Hazardous Chemical Amendment Rules 2000 The Batteries Management and Handling Rules 2010 with Amendments The Public Liability Insurance Act 1991 and Rules 1991 Noise Pollution Regulation and Control Rules 2000 Coastal Regulation Zones CRZ 1991 amended from time to time 33 National Environmental Policies and International Agreements National Forest Policy 1988 National Water Policy 2002 National Environmental Policy 2006 Environmental Conventions and Agreements Stockholm Conference on Human Environment 1972 Montreal Protocol 1987 Conference of Parties COPs Basel Convention 1989 1992 Ramsar Convention on Wetlands 1971 Earth Summit at Rio de

Janeiro 1992 Agenda 21 Global Environmental Facility GEF Convention on Biodiversity 1992 UNFCCC Kyoto Protocol 1997 Clean Development Mechanism CDM Earth Summit at Johannesburg 2002 RIO 20 UN Summit on Millennium Development Goals 2000 Copenhagen Summit 2009 IPCC UNEP IGBP 34 Statistical Fundamentals in Environmental Science Attributes and Variables types of variables scales of measurement measurement of Central tendency and Dispersion Standard error Moments measure of Skewness and Kurtosis Basic concept of probability theory Sampling theory 35 Statistical Distributions and Hypothesis Testing Distributions Normal log normal Binomial Poisson t 2 chi square and F distribution Correlation Regression tests of hypothesis t test 2 test ANOVA one way and two way significance and confidence limits 36 Environmental Modelling Approaches Approaches to development of environmental models linear simple and multiple regression models validation and forecasting Models of population growth and interactions Lotka Volterra model Leslie s matrix model 37 Global Environmental Challenges and National Action Plans Global Environmental Issues Biodiversity loss Climate change Ozone layer depletion Sea level rise International efforts for environmental protection National Action Plan on Climate Change Eight National missions National Solar Mission National Mission for Enhanced Energy Efficiency National Mission on Sustainable Habitat National Water Mission National Mission for Sustaining the Himalayan Ecosystem National Mission for a Green India National Mission for Sustainable Agriculture National Mission on Strategic Knowledge for Climate Change 38 Key Environmental Issues and Conservation Efforts in India Current Environmental Issues in India Environmental issues related to water resource projects Narmada dam Tehri dam Almatti dam Cauvery and Mahanadi Hydro power projects in Jammu Water conservation development of watersheds Rain water harvesting and ground water recharge National river conservation plan Namami Gange and Yamuna Action Plan Eutrophication and restoration of lakes Conservation of wetlands Ramsar sites in India Soil erosion reclamation of degraded land desertification and its control Climate change adaptability energy security food security and sustainability 39 Conservation Movements Wildlife Projects and Sustainable Practices in India Forest Conservation Chipko movement Appiko movement Silent Valley movement and Gandhamardhan movement People Biodiversity register Wild life conservation projects Project tiger Project Elephant Crocodile Conservation GOI UNDP Sea Turtle project Indo Rhino vision Carbon sequestration and carbon credits Waste Management Swachha Bharat Abhiyan Sustainable Habitat Green Building GRIHA Rating Norms Vehicular emission norms in India 40 Environmental Health Issues and Major Disasters Epidemiological Issues Fluorosis Arsenocosis Goitre Dengue Environmental Disasters Minnamata Disaster Love Canal Disaster Bhopal Gas Disaster 1984 Chernobyl Disaster 1986 Fukusima Daiichi nuclear disaster 2011

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Environmental Science Michael L. McKinney, Robert M. Schoch, 2003. This edition provides a comprehensive overview and synthesis of current environmental issues and problems.

Environmental Science for AP® Andrew Friedland, Rick Relyea, 2019-04-12. Written specifically for the AP Environmental Science course. Friedland and Relyea's *Environmental Science for AP* Second Edition is designed to help you realize success on the AP Environmental Science Exam and in your course by providing the built-in support you want and need. In the new edition, each chapter is broken into short, manageable modules to help students learn at an ideal pace. Do the Math boxes review quantitative skills and offer you a chance to practice the math you need to know to succeed. Module AP Review questions, Unit AP Practice Exams, and a full-length cumulative AP Practice test offer unparalleled, integrated support to prepare you for the real AP Environmental Science exam in May. The new edition also features a breakthrough in digital-based learning: an edaptext powered by Copia Class.

[Scientific American Environmental Science for a Changing World](#) Anne Houtman, Susan Karr, Jeneen Interlandi, 2012-03-05. *Environmental Science for a Changing World* captivates students with real-world stories while exploring the science concepts in context. Engaging stories, plus vivid photos and infographics, make the content relevant and visually enticing. The result is a text that emphasizes environmental, scientific, and information literacies in a way that engages students.

Environmental Science Eldon D. Enger, Bradley F. Smith, 2009-02-18. This full-color introductory environmental science text is known for being concise, conceptual, and value-priced. The approach and reading level cover the basic concepts without overloading students with too much detail. The authors reinforce the text's central theme of interrelationships by providing a historical perspective, information on economic and political realities, discuss the role of different social experiences, and integrate this with the crucial science to describe the natural world and how we affect it.

Environmental Science and Technology Stanley E. Manahan, 2006-10-20. Formally established by the EPA nearly 15 years ago, the concept of green chemistry is beginning to come of age. Although several books cover green chemistry and chemical engineering, none of them transfer green principles to science and technology in general and their impact on the future.

Defining industrial ecology. *Environmental Science and Technology* [Environmental Science](#), **Environmental Science: Foundations and Applications** Andrew Friedland, Rick Relyea, David Courard-Hauri, 2011-02-25. Watch a video clip and

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both the applications and implications of biotechnologies by following the life cycle of a variety of established and developing biotechnologies

Principles of Environmental Sciences Jan J. Boersema, Lucas Reijnders, 2008-12-12 International experts provide a comprehensive picture of the principles concepts and methods that are applicable to problems originating from the interaction between the living non living environment and mankind Both the analysis of such problems and the way solutions to environmental problems may work in specific societal contexts are addressed Disciplinary approaches are discussed but there is a focus on multi and interdisciplinary methods A large number of practical examples and case studies are presented There is special emphasis on modelling and integrated assessment This book is different because it stresses the societal cultural and historical dimensions of environmental problems The main objective is to improve the ability to analyse and conceptualise environmental problems in context and to make readers aware of the value and scope of different methods Ideal as a course text for students this book will also be of interest to researchers and consultants in the environmental sciences

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Environmental Science Bernard J. Nebel, Richard T. Wright, 1998 This 6th edition has a distinct multi media focus and incorporates the latest technology to capture student attention and successfully relate the many features of the book It focuses on the environmental issues of the day

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