

Environmental Studies

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PREFACE

We are very glad to handover our book "Environmental Studies" to the readers because this book highlights the impacts of disasters on life and economy and provides the information for their management, monitoring and forecasting of many natural disasters and provides the role of ministry and department of natural disasters to prevent it.

Environment study is an interdisciplinary academic field which studies human interaction with the environment for solving complex problems. It is the field that examines the nature and environment via anthropology, geography, chemistry, sociology, psychology, history, policy, ethics and geospatial perspectives. Environmental conservation and resource efficiency very crucial for ensuring a sustainable future. By preserving ecosystems, conserving biodiversity and optimising resource use, we can mitigate climate change, protect natural resources and promote well-being of present and future generations.

Disaster or crisis management is the process by which we prepare for the quick response and recovery from the natural disasters, such as floods, earthquakes, hurricanes also including the accidents, terrorist attacks and wars. Disaster Management aims to minimise the impact these life threatening disasters and assist in the quick and efficient response.

We have collected a wide range of information from several research papers and chapters from various researchers and scholars and published this book. Your queries and suggestions are always welcome.

Dr. Jyoti S. Kawalekar, Dr. Baliram Pawar

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12**Man Made Causes in Global Warming****Keshao Uttamrao Makode***Department of Botany,
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Global warming is one of the most important burning issue of the world. Each and every country consider this issue seriously to maintain the health and wealth of the nature for the pleasant atmosphere on this earth surface. This issue is not solved easily by taking efforts by 2-10 countries but it would be controlled by the consideration of each and every country citizens by avering themselves for the conservation of nature.

Greenhouse Gas Emissions -

1. Carbon dioxide: One of the strongest greenhouse gases that contributes to global warming is released when plastic is burned.
2. Methane: Another potent greenhouse gas released when plastic burns is methane.
3. Nitrous oxide: Nitrous oxide, a greenhouse gas 300 times more powerful than carbon dioxide, can also be released when plastic is burned.

Toxic Chemical Release -

1. Dioxins: Toxic compounds called dioxins, which can cause cancer and other health issues, are released when plastic burns.
2. Furans: Another class of harmful compounds known as furans can be released when plastic burns.
3. Burning plastic releases volatile organic compounds (VOCs), which can have detrimental health consequences and contribute to air pollution.

Climate Change Contribution -

1. Global warming: Burning plastic releases greenhouse gases that fuel global warming.

2. Air pollution: Burning plastic can also contribute to air pollution, which has an adverse effect on the environment and human health.

Fossil Fuels Burning –

1. Emissions of carbon dioxide: Burning fossil fuels like coal, oil, and gas causes significant emissions of carbon dioxide into the atmosphere, which contributes to global warming.
2. Emissions of methane: Methane is a powerful greenhouse gas that is released during the manufacturing and transportation of fossil fuels.

Changes in Land Use and Deforestation -

1. Forest clearing: Forests' capacity to absorb carbon dioxide is diminished when they are cleared for urbanization, agriculture, and other uses.
2. Degradation of soils: Intense farming and other human endeavors cause soils to deteriorate, releasing stored carbon into the atmosphere.

Industrial Procedures -

1. Production of cement: A significant amount of carbon dioxide is released into the environment during the cement-making process.
2. Steel production: A considerable amount of carbon dioxide is released during the steel production process.
3. Chemical manufacture: Nitrous oxide and fluorinated gases are among the greenhouse gases released during the manufacturing of chemicals like insecticides and fertilizers.

Activities Related to Agriculture –

1. Livestock farming: Methane and nitrous oxide are released during the production of meat, particularly beef.
2. Rice cultivation: Methane is released during rice cultivation.
3. Fertilizer use: Nitrous oxide is released when synthetic fertilizers are used in agriculture.

Management of Waste –

1. Methane emissions from landfills: Methane is released as waste breaks down in landfills.
2. trash incineration: When trash is burned, greenhouse gases

like carbon dioxide and nitrous oxide are released.

Handling of Waste -

1. Landfill methane emissions: As garbage decomposes in landfills, methane is emitted.
2. Rubbish incineration: Greenhouse gases including carbon dioxide and nitrous oxide are generated during the burning of rubbish.

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