

# Industrial Pollution Control and Air Effluents Treatment Books

[Water and Air Effluents Treatment Handbook](#)

**Author:** NPCS Board of Consultants & Engineers

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Water treatment describes those processes used to make water more acceptable for a desired end use. These can include use as drinking water, industrial processes, medical and many other uses. The goal of all water treatment process is to remove existing contaminants in the water, or reduce the concentration of such contaminants so the water becomes fit for its desired end use. Water quality analytical techniques are considered in the context of EEC directives on the quality of the aquatic control of all effluents is entering it. The principal methods of water analysis are reviewed and it indicated in view of destructive and hazardous role of pollution, it become necessary that the very nature of atmosphere, the various air effluent are present there to save the environment from the harmful effect. Effluent can be treated in different ways, it is classified as; preliminary treatment, primary treatment, secondary treatment and complete final treatment. Waste water obtained from industries is generally much more polluted than the domestic or even commercial waste water. Industrial wastewater cannot be always treated easily by the normal methods of treating domestic waste waters. Depending on the quantum, concentration, toxicity and presence of non biodegradable organics in an industrial wastewater, its treatment may consist of any one or more processes such as equalization, neutralization, physical treatment, chemical treatment and biological treatment. The atmosphere contains hundreds of air pollutants from natural or from anthropogenic sources. All such pollutants are called primary pollutants for example; sulphur oxides, carbon monoxide, nitrogen oxides, lead etc. Secondary pollutants are the chemical substances, which are produced from the chemical reactions of primary pollutants or due to their oxidation etc. A high growth in vehicle population brings in its wake urban air pollution problems unless timely appropriate steps to control vehicle emissions are under taken. Some of the fundamentals of the book are quality and characteristics of effluents, collection of sewage samples for physical and, chemical testing, disposing of effluents, disposal of wastewaters in lakes and management of lake waters, disposal of sewage effluents on land for irrigation, classification of treatment processes, treatment of industrial effluents, methods of treating industrial wastewaters, strategies for management of industrial wastes, combined

industrial municipal wastes, a process for upgrading paper mill effluent by water hyacinth, ventilation for controlling indoor air pollution, the environment and its pollution, disposal of environmentally hazardous radioactive effluents and biomedical wastes, air pollution, its control and monitoring, fuels from waste etc. This book is an effort to put together the various options available to meet the water and air effluent available for the environmental protection. The book presents a concise but through an overview of state of technology for water and air effluent treatment. The water and air effluent treatments are organized into chapters by broad problem area, treatment of industrial effluent, industrial waste management, etc. This will be helpful to technocrats, consultants, educators, architects, industry executive, students and others concerned with saving environment problem.

# The Complete Guide on Industrial Pollution Control

**Author:** H. Panda

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Industrialization is the process of social and economic change that transforms a human group from a pre-industrial society into an industrial one. It is a part of a wider modernization process, where social change and economic development are closely related with technological innovation, particularly with the development of large scale energy and metallurgy production. Industrial pollution hurts the environment in a range of ways, and it has a negative impact on human lives and health. Pollutants can kill animals and plants, imbalance ecosystems, degrade air quality radically, damage buildings, and generally degrade quality of life. India is a home to many industries. The sectors include Iron and Steel, Pulp and Paper, Food Processing, Chemicals, Aluminium Industry, Cement, Pharmaceuticals, Machine tools, Surface finishing Industries etc. However, the industrial growth happening at a breakneck speed has resulted in a significant contribution to the toxicity in the environment. Therefore industrial activities should comply with regulatory norms for prevention and control of pollution. There have been many guidelines for the industries and the pollution caused by them. The setup and implementation of these guidelines is a joint responsibility of the central and state governments along with the Central Pollution Control Board to curb such emissions. At present, the control of pollution from industrial installations remains a key issue in India. As urbanisation expands and cities grow the need to deal with the environmental impact becomes even more important to ensure sustainable development. This also entails handling increasing volumes of waste water. Efficient wastewater management exploiting the capacity optimally requires a thorough understanding of the pollutions sources origin and substance. Hence pollution sources must be mapped and identified. This book is designed to assist in the identification and implementation of a cost effective program for industrial pollution monitoring, control, and abatement within the context of institutional and financial constraints present in India. The book is a complete guide on industrial pollution control in important industries like Iron and Steel, Pulp and Paper, Food processing, Chemicals, Aluminium industry, Cement, Pharmaceuticals, Paint industry and many more. This book will be very resourceful to all its readers, students, entrepreneurs, technical institution, scientist, etc.

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