

Water Pollution and Waste Water Management Practices and Strategies

A. K. Swar

Abstract

Along with increasing population, industrialization and urbanization the demand of fresh water is proportionately increasing and at the same time, huge quantities of waste water being discharged from all these point and non point sources are also increasing. In view of this, there is an urgent need to restrict water pollution and process the waste water for reuse. In this paper, the origin of waste water from various sources like domestic, manufacturing processes from utilities, agricultural and the regulatory frame work to prevent and control water pollution has been described in this paper. Suggestions have been made regarding waste minimization through reducing water use, reducing contamination of water and enhance water reuse. The different treatment technologies of waste water from various sources and the issues on water pollution control have been highlighted.

Keywords: Waste water generation, Water pollution, Regulatory frame work, Waste minimization, Effluent treatment, Pollution control.