

٥٠٦٠٤٣٠٥ Environmental protection “II

Chapter One: Radioactive Pollution and Control:

Introduction, Basic Types of Radiation, Sources of Radioactive Pollution, Damages caused by radiation, Effect of Radiation and their salient features, Control of Radioactive Pollution. Treatment of Solid Radioactive wastes, Alternatives for disposal of radioactive wastes.

Chapter Two: Vehicular Pollution and Control:

Children and air pollution, main causes of pollution from vehicles, vehicular emission in Iraq, vehicular population, The two-wheeler boom, fuel combustion, ambient air quality, ambient air quality standard in Iraq, status of vehicular air pollution in Iraq, causes of traffic noise, determining noise impact, damages of human health caused by highway noise, method of reducing highway noise, remedies for traffic noise control in Iraq.

Chapter Three: Renewable Sources of Energy:

Solar energy, wind energy, micro-hydel power, bio-energy, geothermal energy, tidal energy, hydrogen energy.

Chapter Four: Ozone Layer Depletion:

Ozone depletion, ozone science, the fact behind the phase out, possibility of recovering ozone layer and making more ozone, the process of ozone depletion, attempts to protect ozone layer at International level.

Chapter Five: Risk Assessment and Environmental Pollution Control:

Concepts of Hazard and Risk Analysis, Hazard identification, Dose-Response Assessment, Risk Exposure Assessment, Risk Characterization, hazard Operability Study, Major Hazard Control Procedure, for an operability study, Hazard survey, Risk analysis, New Developments in Quantifying Risks, Risks Reducing Measures.

Chapter Six: Bio-Medical Waste – Strategies of Management:

Historical Perspectives, Rational of Waste management, Health Hazards and Risk Associated with Poor Hospital Waste Management, Impacts of Improper hospital waste management on Environment, Definition, Classification and Categories of Hospital Waste, Classification and Categories of Bio-medical Wastes, Types Of Health Care Institutions Generating Waste, Waste Treatment Technologies, Immunization waste, Biomedical Wastes and Their Hazards on Health and Environment.

Chapter Seven: Hazardous Waste:

Classification of Hazardous substances, Effects of Hazardous Waste, Transportation, Storage and Disposal, Planning and Hazardous waste Incineration, Types of Incinerators, Electronic Waste, Hazardous Wastes (Management and Handling) Rules, The Basel Convention on the Tran boundary Movement of Hazardous Wastes and their Disposal.

Chapter Eight: Pesticides:

Introduction, Classification of pesticides, Risks of pesticides, Treatment of pollution due to pesticides.