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Environmental Issues, Law and Technology

-An Indian Perspective



RAMESHA CHANDRAPPA
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 RESEARCH INDIA PUBLICATIONS

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About the Book:

Environmental problems and solutions are different in different country. In this context a separate syllabus is set up for students of engineering graduates of all branches in Vishveshwaraiah Technical University, Belgaum, Karnataka. The syllabus expects students to know Environmental Issues, Law and Technology in Indian context. As on date there is no book which brings in all the issues in single book. Hence this book is written keeping the 60,000 students who enroll themselves for engineering every year in Karnataka. The book has made in a way it will be use for practitioners as well as decision makers (like treatment technology to be decided depending on pollutants in water). An attempt is made to keep the book as compact as possible eliminating lengthy sentences and enlisting all issues and law with brief description.



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Contents:

- **Introduction:** Components of Environment, atmosphere, biosphere, lithosphere, anthrop systems, energy flow and ecosystem, natural resources - Renewable and Nonrenewable, Water resources: dams and their impact on environment, water recharging, eutrophication of lakes, water conservation and management.
- **Environmental Issues:** Environmental law. Disaster management. Impact of technology on environment; Mineral resources - mining and its impact on environment. Forest resources. Impact of growing population on natural resources and climate with specific reference to India. Rise in sea level, land erosion, green house effect and global warming, acid rain and ozone depletion.
- **Environmental Pollution**
 - Air pollution:** Sources of air pollutants, control measures and air quality standards
 - Noise pollution:** Sources, industrial and non industrial, measurement of noise, effects of noise pollution and control methods.
 - Thermal pollution:** Effects and management of thermal pollution
 - Soil pollution:** Causes, natural and anthropogenic sources and control
 - Water pollution:** Sources and extent of water pollution. Types of water pollutants, effects of water pollution. Impurities in water-dissolved, suspended, colloidal and biological, hardness, alkalinity, BOD and COD. Sewage treatment; purification, primary and secondary treatment and activated sludge process. Potable water; purification of water by flash evaporation, electro dialysis and reverse osmosis, production of mineral water
- **Management of Solid waste:** Classification, industrial and agro industrial wastes. Methods of disposal and management, Recycling. Hazardous wastes: nuclear, biomedical and E-waste.