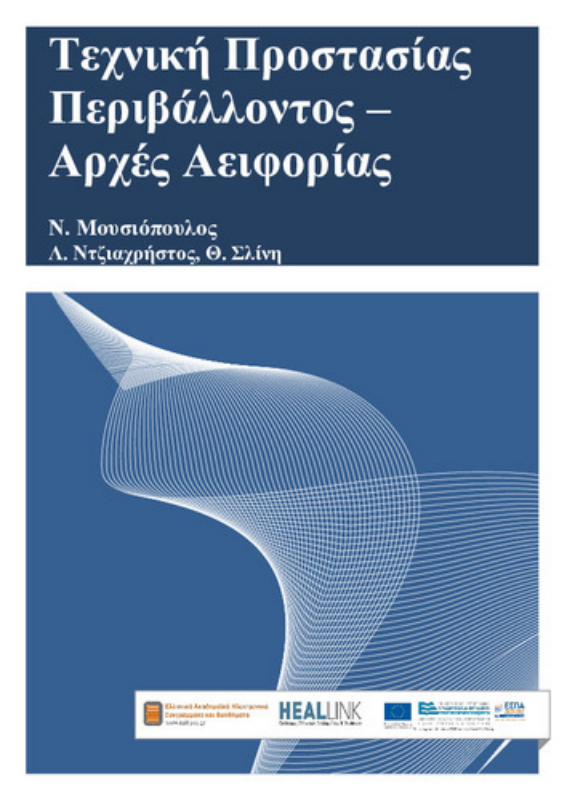


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Abstract

The book provides an adequate basis to undergraduate students wishing to enrich their knowledge in Environmental Engineering. It can also be used by postgraduate students and experts as well as other readers familiar with the basic concepts of Environmental Science.

Teachers, students and environmental scientists can find in this book the necessary material for understanding the following concepts:

Environmental systems, environmental ethics, globalization and sustainability.

Pollutants and their impact: inorganic and organic compounds.

Environmental standards and compliance regulations: environmental legislation and IPP/IPPS, limit values, environmental compliance

Integrated assessment: environmental indicators - sustainable development, assessment methods for pollution abatement measures.

Environmental Chemistry: basic concepts, cycles of carbon, water and nitrogen, acid precipitation, .

Air quality: atmospheric pollution, pollution sources, transport phenomena in the atmosphere, consequences of air pollution, air quality models, air pollution abatement processes and technologies.

Waste management: waste production and its consequences, legal background, waste disposal stages, waste management in Greece.

Risk assessment and management: risk and decision making, danger assessment and avoidance

Integrated product policy: environmental management tools, life cycle analysis, eco-label, environmental management systems.

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