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Descrizione fisica	1 online resource (VIII, 278 p. 152 illus., 97 illus. in color.)
Disciplina	363.7
Soggetti	Pollution Environmental sciences Energy Environmental management Air pollution Water pollution Pollution, general Environmental Science and Engineering Energy, general Environmental Management Atmospheric Protection/Air Quality Control/Air Pollution Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Air Pollution and Health Effects -- Air Pollution from Mobile Sources: Formation, Effects and Abatement Strategies -- Air Quality Modelling and its Applications -- Fuel Cell Technology and Materials -- Engineering Aspects related to the Use of Microalgae for Biofuels Production and CO2 Capture from Flue Gases -- Concentrating Solar Energy Technologies -- Probiotics for Environmental Sanitation: Goals and Example -- Dust Removal and Collection Techniques -- The Role of Catabolic Plasmids in Biodegradation of Petroleum Hydrocarbons -- On the Exploitation of Self-propagating High-temperature Reactions for Environmental Protection -- Glyphosate : Safety Risks,

Biodegradation and Bioremediation -- Bioleaching of Metals as Eco-Friendly Technology -- Biodiversity -- Passive Sampling Technologies for the Monitoring of Organic and Inorganic Contaminants in Seawater -- A Review of Green Business -- Grid/Cloud Computing as new Paradigms for Collaborative Problem Solving and Shared Resources Management in Environmental Sciences.

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## Sommario/riassunto

This book's aim is to bring together, in one volume, state-of-the-art information on a number of current environmental issues and challenges. · The chapters dealing with air pollution from mobile sources, air pollution and health effects, and air quality modelling fall into the air pollution category. · Chapters related to microalgae for carbon dioxide sequestration/biofuels production, fuel cells, and solar energy technology, respectively, can be ascribed to the energy topic. · Several technologies to handle a wide spectrum of environmental pollutants are taken into account in the corresponding chapters: self-propagating high-temperature reactions, catabolic plasmids biodegradation, dust removal, glyphosate biodegradation, bioleaching, and probiotic bacteria for water sanitation. · The chapter on biodiversity is clearly related to the conservation issue, while the water pollution subject is tackled by the chapter on water quality monitoring. · Environmental management is considered with a general analysis on green business, as well as a chapter on using grid/cloud computing technology for collaborative problem solving and shared resources management. Each chapter is stand-alone to allow the user rapid access to the subject of interest. Few books currently exist that cover such a wide spectrum of topics. For this reason it is intended as a text for graduate courses in environmental science and engineering, as well as for reference by researchers and practitioners interested in the latest developments in the environmental field.

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