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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.

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.
