

Environmental Technologies

New Developments

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Edited by
E. Burcu Özkaraova Güngör

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Preface

There is no doubt that most of the environmental problems, which we are dealing with, are a result of improper management of industrial activities. Available techniques are used to reduce the emissions and the impact on the ecosystem, but stresses on the ecosystem continue. On the other side, the desire for a healthy environment increases, which produces the need for better tools to improve pollution prevention, control and cleanup capabilities. Besides the development of environmentally sound technologies based on waste minimization, energy efficiency and better use of resources, environmental technology research and development continues to lower future expenditures, to address specialized problems more efficiently and to achieve the required industrial and environmental standards. Special emphasis should be given to the reduction of risks to the ecosystem, which requires improved detection, monitoring and characterization of environmental changes. These practices will provide better information on exposure, enabling more precise environmental health risk assessments, which should be considered during the re-evaluation of new technology developments. Following these statements it should be realized that the performance of technology is related to well performed environmental management systems relying on collaborative or multi - stakeholder approaches.

This book on Environmental Technology takes a look at issues such as air, soil and noise pollution problems, environmental quality assessment, monitoring, modelling and risk assessment, environmental health impact assessment, environmental management and environmental technology development. It represents institutional arrangements, financial mechanisms and some sustainable technologies. The user can always count on finding both introductory material and more specific material based on national interests and problems. The user will also find ample references at the end of each chapter, if additional information is required. For additional questions or comments the user is encouraged to contact the author.

The book was a result of efforts by many experts from different professionals. I would like to acknowledge the authors, who are from different countries, for their contribution to the book. I wish to offer special thanks to Aleksandar Lazincia for his exceptional assistance and to the individuals and organizations, who either directly or indirectly contributed to this work.



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