



Organic Waste Recycling: Technology and Management

By Chongrak Polprasert

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This book covers the principles and practices of technologies for the control of pollution originating from organic wastes (e.g. human faeces and urine, wastewater, solid wastes, animal manure and agro-industrial wastes) and the recycling of these organic wastes into valuable products such as fertilizer, biofuels, algal and fish protein and irrigated crops. Each recycling technology is described with respect to: -Objectives -Benefits and limitations -Environmental requirements -Design criteria of the process -Use of the recycled products -Public health aspects This new edition, an update of the previous book, is a response to the emerging environmental problems caused by rapid population growth and industrialization. It describes the current technology and management options for organic waste recycling which are environmentally friendly, effective in pollution control and yield valuable by-products. Every chapter has been revised to include successful case studies, new references, design examples and exercises. New sections added to the 3rd edition include: Millennium development goals, waste minimization and cleaner production, methanol and ethanol production, chitin and chitosan production, constructed wetlands, management and institutional development. This is a textbook for environmental science, engineering and management students who are interested in the current environmental problems and seeking solutions to the emerging issues. It should be a valuable reference book for policy makers, planners and consultants working in the environmental fields.

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