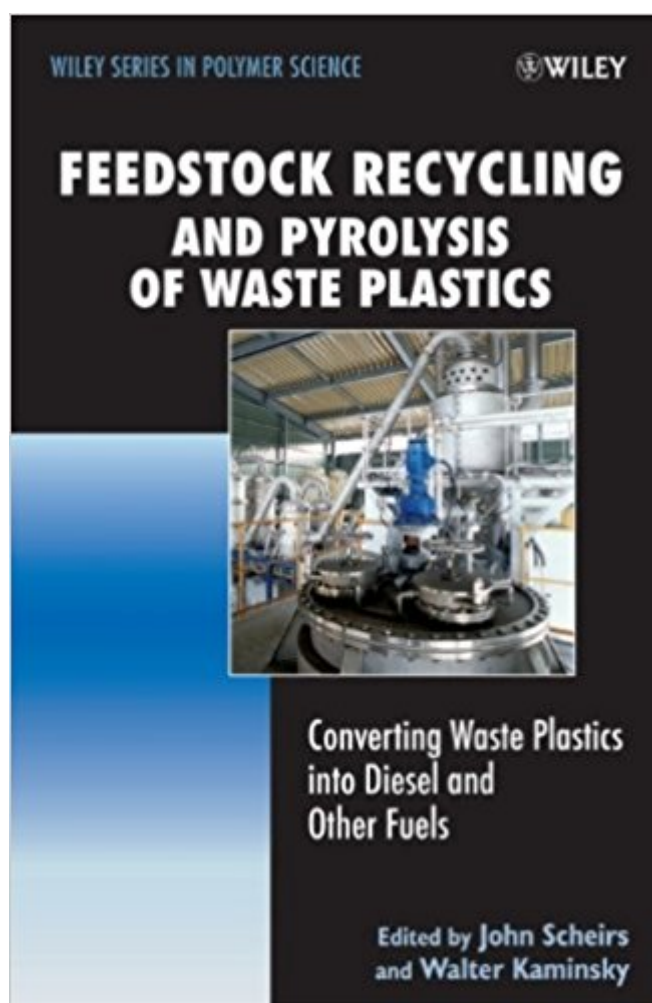


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Feedstock Recycling And Pyrolysis Of Waste Plastics: Converting Waste Plastics Into Diesel And Other Fuels



Synopsis

Pyrolysis is a recycling technique converting plastic waste into fuels, monomers, or other valuable materials by thermal and catalytic cracking processes. It allows the treatment of mixed, unwashed plastic wastes. For many years research has been carried out on thermally converting waste plastics into useful hydrocarbons liquids such as crude oil and diesel fuel. Recently the technology has matured to the point where commercial plants are now available. Pyrolysis recycling of mixed waste plastics into generator and transportation fuels is seen as the answer for recovering value from unwashed, mixed plastics and achieving their desired diversion from landfill. This book provides an overview of the science and technology of pyrolysis of waste plastics. It describes the types of plastics that are suitable for pyrolysis recycling, the mechanism of pyrolytic degradation of various plastics, characterization of the pyrolysis products and details of commercially mature pyrolysis technologies. This book also covers co-pyrolysis technology, including: waste plastic/waste oil, waste plastics/coal, and waste plastics/rubber.

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Customer Reviews

"â |contains a wealth of informationâ |anyone interested in the field must consult this text." (Journal of Hazardous Materials, August 17, 2007) "â |an invaluable addition to any technical or university libraryâ |" (CHOICE, July 2007)

Conventional recycling technologies can only recycle 15-20% of waste plastics. Beyond this, the

plastics become increasingly contaminated with extraneous material. Pyrolysis technology can handle unsorted, unwashed plastics and produce high saleable end products such as diesel fuel, with no toxic or environmentally harmful emissions. This book covers the science and technology of converting waste plastics into liquid fuels, gaseous fuels and useful monomer precursors. This book will present information on: Pyrolysis plant design Types of plastics that can be processed Process flow sheets and descriptions Qualities of produced fuel oils and residue Their applications Waste gas analysis data This book covers the latest fundamental theory and practice behind the pyrolysis of waste plastics. It will include extensive use of figures and photos to illustrate various plastics pyrolysis processes. All chapters are international in scope, written by the foremost experts in academia and industry, with emphasis on contributions from principal companies involved in the R&D of pyrolysis processes for waste plastics. This book compliments the earlier book in the Wiley Series in Polymer Science, which described more broadly general polymer recycling. This book is a valuable guide to industries and workers involved in the recycling of waste plastics, suitable for polymer and material scientists, plastics engineers, environmental engineers, postgraduate polymer students, waste consultants, government agencies and policy makers.

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