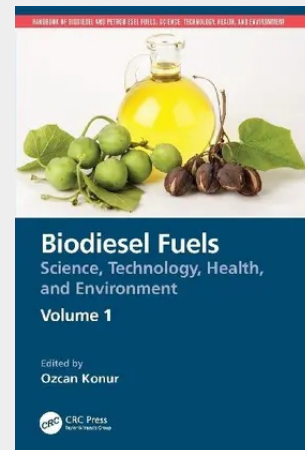


Biodiesel Fuels

Science, Technology, Health, and Environment

This first volume of the Handbook of Biodiesel and Petrodiesel Fuels presents a representative sample of the population papers in the field of biodiesel fuels in general. Part I provides an overview of the research field on both biodiesel and petrodiesel fuels highlighting primary and secondary research fronts in these fields. Part II presents a representative sample of the population papers in the field of biooils covering major research fronts. The research on the biooils is a fundamental part of the research on the biodiesel fuels. The research in this field has intensified in recent years with the application of advanced catalytic technologies and nanotechnologies in both production and upgrading of biooils. It covers pyrolysis, hydrothermal liquefaction, and upgrading, and characterization and properties of biooils besides an overview of the research field. Part III presents a representative sample of the population papers in the field of biodiesel fuels in general covering major research fronts. The research in this field has progressed in the lines of production, properties, and emissions of biodiesel fuels. As in the case of biooils, catalysts and additives play a crucial role for the biodiesel fuels. It covers biomass-based catalyst-assisted biodiesel production, enzymatic biodiesel production, additives in biodiesel production, properties, characterization, performance, and policies of biodiesel fuels besides an overview of the research field. Part IV presents a representative sample of the population papers in the field of glycerol, biodiesel waste, covering major research fronts. The research in this field has intensified in recent years with the increasing volume of biodiesel fuels, creating eco-friendly solutions for these wastes of biodiesel fuels for producing valuable biofuels and biochemicals from glycerol. It covers biohydrogen and propanediol production from glycerol as a case study for bioenergy and biochemicals, respectively. This book will be useful to academics and professionals in the fields of Energy Fuels, Chemical Engineering, Physical Chemistry, Biotechnology and Applied Microbiology, Environmental Sciences, and Thermodynamics. Ozcan Konur is both a materials scientist and social scientist by training. He has published around 200 journal papers, book chapters, and conference papers. He has focused on the bioenergy and biofuels in recent years. In 2018, he edited Bioenergy and Biofuels, which brought together the work of over 30 experts in their respective field. He also edited the Handbook of Algal Science, Technology, and Medicine with a strong section on the algal biofuels in 2020.

The first volume of the Handbook of Biodiesel and Petrodiesel Fuels focuses on introductory chapters on biooils, biodiesel fuels, and biodiesel fuel wastes (glycerol). This book focuses on the production and properties of bioenergy and biofuels, biochemicals, and other bioproducts produced from glycerol.



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