Advances in Biofeedstocks and Biofuels, Volume 4, Production Technologies for Solid and Gaseous Biofuels
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DESCRIPTION

Advances in Biofeedstocks and Biofuels PRODUCTION TECHNOLOGIES FOR SOLIDS AND GASEOUS BIOFUELS

This latest volume in the series, “Advances in Biofeedstocks and Biofuels,” offers the most up-to-date and comprehensive coverage available for the production technologies for solid and gaseous biofuels.

Biofuel production is one of the most extensively studied recent fields of innovation that can provide the world an alternative energy source. Biomass-based fuel production, or renewable fuels, are becoming increasingly important as a remedy for the increasing greenhouse effect, depleting oil reserves, and rising oil prices. Therefore, research on the production of various biofuels is gaining very much importance among scientists and researchers all over the globe.

The book, Production Technologies for Solid and Gaseous Biofuels, is the fourth volume of the book series entitled “Advances in Biofeedstocks and Biofuels.” The first volume, Biofeedstocks and Their Processing, covered the aspects of biofeedstocks and their suitability as an alternative energy source. The second volume, Production Technologies for Biofuels, covered all the latest technologies in biofuels production. The third volume, Liquid Biofuel Production, focused on the latest technologies involved in the production of liquid biofuels, such as bioethanol, biodiesel, biobutanol, and others.

This fourth volume, Production Technologies for Solid and Gaseous Biofuels, covers all of the latest technologies in the field of solid biofuels, like biochar, briquettes from biomass, as well as gaseous biofuels like biogas, biohydrogen, and more. Various aspects of
utilization of waste biomass for the production of solid and gaseous biofuels are also discussed. This book presents the state of the art in solid and gaseous biofuel production, a must have for any engineer or scientist working in this field.

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**ABOUT THE AUTHOR**

Lalit Kumar Singh, PhD, FWRA was educated at Harcourt Butler Technological Institute in Kanpur, India and received his doctorate from the Indian Institute of Technology in Roorkee. He has more than 18 years of teaching and research experience. He researched fractionation of lignocellulosic biomass to extract soluble sugars and developed a novel sequential-co-culture technique for the efficient bioconversion of sugar to bioethanol and important innovation in the field of biofuels and fermentation technology. He has more than 70 publications in international journals, conference proceedings, chapters in books and edited and authored books.

Gaurav Chaudhary, PhD, has more than seven years of experience of teaching and research in the field of bioenergy and biochemical engineering. He is currently an assistant professor in the Department of Renewable and Bio-Energy Engineering at the College of Agricultural Engineering and Technology. He received his PhD from the Indian Institute of Technology in Roorkee in the field of biofuel and bioenergy. He has published many research articles in peer-reviewed scientific journals and presented his research work at conferences in these areas. The areas of research he is involved with currently are lignin fractionation and its valorization, bioenergy, and other value-added products.

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