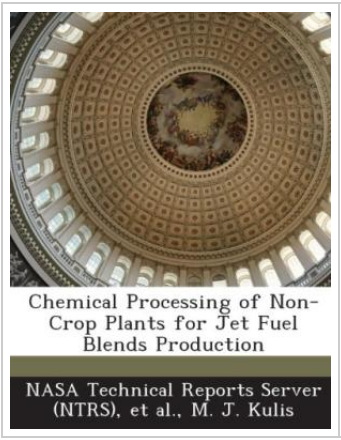

Chemical Processing of Non-Crop Plants for Jet Fuel Blends Production (Paperback)

By M J Kulis

Bibliogov, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. The use of Biofuels has been gaining in popularity over the past few years due to their ability to reduce the dependence on fossil fuels. Biofuels as a renewable energy source can be a viable option for sustaining long-term energy needs if they are managed efficiently. We describe our initial efforts to exploit algae, halophytes and other non-crop plants to produce synthetics for fuel blends that can potentially be used as fuels for aviation and non-aerospace applications. Our efforts have been dedicated to crafting efficient extraction and refining processes in order to extract constituents from the plant materials with the ultimate goal of determining the feasibility of producing biomass-based jet fuel from the refined extract. Two extraction methods have been developed based on communition processes, and liquid-solid extraction techniques. Refining procedures such as chlorophyll removal and transesterification of triglycerides have been performed. Gas chromatography in tandem with mass spectroscopy is currently being utilized in order to qualitatively determine the individual components of the refined extract. We also briefly discuss and compare alternative methods to extract fuel-blending agents from alternative biofuels sources.

Reviews

I just started out reading this ebook. It is rally exciting throgh reading through time. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- ***Leonie Collins***

It in a single of my personal favorite ebook. It really is filled with wisdom and knowledge I discovered this book from my dad and i recommended this book to discover.

-- ***Kyla Goodwin***