



# **Biodiesel Science and Technology: From Soil to Oil (Woodhead Publishing Series in Energy)**

*J C J Bart, N Palmeri, S Cavallaro*

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Biodiesel production is a rapidly advancing field worldwide, with biodiesel fuel increasingly being used in compression ignition (diesel) engines. Biodiesel has been extensively studied and utilised in developed countries, and it is increasingly being introduced in developing countries, especially in regions with high potential for sustainable biodiesel production.

Initial sections systematically review feedstock resources and vegetable oil formulations, including the economics of vegetable oil conversion to diesel fuel, with additional coverage of emerging energy crops for biodiesel production. Further sections review the transesterification process, including chemical (catalysis) and biochemical (biocatalysis) processes, with extended coverage of industrial process technology and control methods, and standards for biodiesel fuel quality assurance. Final chapters cover the sustainability, performance and environmental issues of biodiesel production, as well as routes to improve glycerol by-product usage and the development of next-generation products.

Biodiesel science and technology: From soil to oil provides a comprehensive reference to fuel engineers, researchers and academics on the technological developments involved in improving biodiesel quality and production capacity that are crucial to the future of the industry.

- Evaluates biodiesel as a renewable energy source and documents global biodiesel development
- The outlook for biodiesel science and technology is presented exploring the challenges faced by the global diesel industry
- Reviews feedstock resources and vegetable oil formation including emerging crops and the agronomic potential of underexploited oil crops

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