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Biolubricants: Science and Technology (Woodhead Publishing Series in Energy)

J C J Bart, S Cavallaro, E Gucciardi

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Lubricants are essential in engineering, however more sustainable formulations are needed to avoid adverse effects on the ecosystem. Bio-based lubricant formulations present a promising solution. Biolubricants: Science and technology is a comprehensive, interdisciplinary and timely review of this important subject.

Initial chapters address the principles of lubrication, before systematically reviewing fossil and bio-based feedstock resources for biodegradable lubricants. Further chapters describe catalytic, (bio) chemical functionalisation processes for transformation of feedstocks into commercial products, product development, relevant legislation, life cycle assessment, major product groups and specific performance criteria in all major applications. Final chapters consider markets for biolubricants, issues to consider when selecting and using a lubricant, lubricant disposal and future trends.

With its distinguished authors, Biolubricants: Science and technology is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers, as well as researchers and academics with an interest in the subject. It provides an essential overview of scientific and technological developments enabling the cost-effective improvement of biolubricants, something that is crucial for the green future of the lubricant industry.

- A comprehensive, interdisciplinary and timely review of bio-based lubricant formulations
- Addresses the principles of lubrication
- Reviews fossil and bio-based feedstock resources for biodegradable lubricants

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