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Autore	Madanhire Ignatio
Titolo	Mitigating Environmental Impact of Petroleum Lubricants // by Ignatio Madanhire, Charles Mbohwa
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ISBN	3-319-31358-4
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XXVIII, 239 p. 73 illus., 30 illus. in color.)
Disciplina	621.89 620.11223
Soggetti	Tribology Corrosion and anti-corrosives Coatings Industrial engineering Production engineering Fluid mechanics Chemical engineering Sustainable development Tribology, Corrosion and Coatings Industrial and Production Engineering Engineering Fluid Dynamics Industrial Chemistry/Chemical Engineering Sustainable Development
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Lubricant environmental impacts -- Green lubricant design and practice aspects -- Synthetic lubricants -- Development of biodegradable lubricants -- Environment and the economics of long drain intervals -- Recycling of used oil.-Future lubricant trends.
Sommario/riassunto	This book explores effective environmental impact mitigation for petroleum-based lubricants to reduce their negative persistence during usage and upon end-of-life disposal. The book reviews the basic tribology of lubricants as well as initiatives that may enhance the

environmental and economic effectiveness of lubricating oils from the composition design perspective across industries. Considering the blending, application, and disposal of petroleum lubricants in a holistic manner, the book presents and extends current best practices that minimize or eliminate adverse environmental impact throughout the product's life cycle. The book reviews methods including: raw material substitution, minimizing oil losses during and after manufacturing, raw material and energy consumption reduction, and environmentally friendly applications of oil disposal as ways forward for cleaner and more effective production. This book provides readers with strategies for incorporating cleaner production practices into their operations – a benefit to both environmental legal compliance and business competitiveness – all the while preserving the environment for sustainable development. The book is therefore of interest to both manufacturers and consumers in the lubricants industry.
