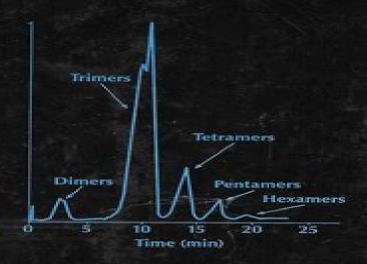
## SYNTHETIC LUBRICANTS AND HIGH-PERFORMANCE FUNCTIONAL FLUIDS



edited by Ronald L. Shubkin

# **Synthetic Lubricants And High Performance Functional Fluids**

Marika Torbacke, Åsa Kassman Rudolphi, Elisabet Kassfeldt

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since the first edition Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology Third Edition highlights the major economic and industrial changes in the lubrication industry and outlines the state of the art in each major lubricant application area Chapters cover the use of lubricant fluids growth or decline of market areas and applications potential new applications production capacities and regulatory issues including biodegradability toxicity and food production equipment lubrication The highly anticipated third edition features new and updated chapters including those on automatic and continuously variable transmission fluids fluids for food grade applications oil soluble polyalkylene glycols functional bio based lubricant base stocks farnesene derived polyolefins estolides bio based lubricants from soybean oil and trends in construction equipment lubrication Features include Contains an index of terms acronyms and analytical testing methods Presents the latest conventions for describing upgraded mineral oil base fluids Considers all the major lubrication areas engine oils industrial lubricants food grade applications greases and space age applications Includes individual chapters on lubricant applications such as environmentally friendly disk drive and magnetizable fluids for major market areas around the globe In a single unique volume Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology Third Edition offers property and performance information of fluids theoretical and practical background to their current applications and strong indicators for global market trends that will influence the industry for years to come Fuels and Lubricants Toxicological Profile for Mineral Oil Hydraulic Fluids, Organophosphate Ester Hydraulic Fluids, Lubricants Marika Torbacke, Åsa Kassman Rudolphi, Elisabet and Polyalphaolefin Hydraulic Fluids ,1994 Kassfeldt, 2014-05-12 Those working with tribology often have a background in mechanical engineering while people working with lubricant development have a chemistry chemical engineering background This means they have a tradition of approaching problems in different ways Today's product development puts higher demands on timing and quality requiring collaboration between people with different backgrounds However they can lack understanding of each other's challenges as well as a common language and so this book aims to bridge the gap between these two areas Lubricants Introduction to Properties and Performance provides an easy to understand overview of tribology and lubricant chemistry The first part of the book is theoretical and provides an introduction to tribological contact friction wear and lubrication as well as the basic concepts regarding properties and the most commonly made analyses on lubricants Base fluids and their properties and common additives used in lubricants are also covered The second part of the book is hands on and introduces the reader to the actual formulations and the evaluation of their performance Different applications and their corresponding lubricant formulations are considered and tribological test methods are discussed Finally used oil characterisation and surface characterisation are covered which give the reader an introduction to different methods of characterising used oils and surfaces respectively Key features Combines chemistry and tribology of lubricants into one unified approach Covers the fundamental theory describing lubricant properties as well as base fluids and additives Contains practical information on the

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