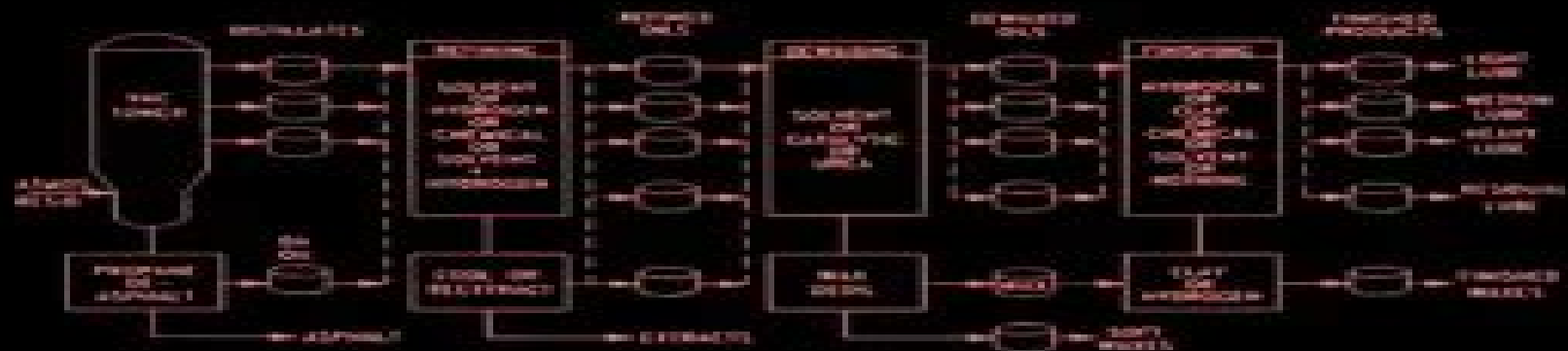


LUBRICANT BASE OIL AND WAX PROCESSING



Avilino Sequeira, Jr.

Lubricant Base Oil And Wax Processing

Lilianna Z. Pillon



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Developments in Lubricant Technology S. P. Srivastava,2014-07-11 DEVELOPMENTS IN LUBRICANT TECHNOLOGY Examines all stages of Lubricant formulations production and applications *Developments in Lubricant Technology* describes the basics of Lubricant formulations and their application in variety of equipment and engines Divided into twenty chapters this book provides an introduction to lubricant technology for users young scientists and engineers desirous of understanding this subject The book covers all major classes of lubricants including base oils mineral chemically modified and synthetic followed by the description of chemical additives and their evaluation A brief chapter on the friction wear and lubrication has been provided to understand the behaviour of lubricants in equipment Major industrial oils such as turbine hydraulic gear compressor and metal working fluids have been described Automotive engine gear and transmission oils for passenger cars commercial

vehicles rail road marine natural gas engines and 2T 4T small engines have been discussed at length with latest specifications and global trends Various synthetic oils and environmentally friendly products have also been described in the relevant chapters to understand the critical applications of such products in modern equipment and engines Finally lubricants blending technology quality control their storage handling re refining and condition monitoring in equipment have been discussed along with the typical lubricant tests and their significance

The Significance of Tests for Petroleum Products, 1951 *Surface Activity of Petroleum Derived Lubricants* Lilianna Z. Pillon, 2016-04-19 Hundreds of lubricant additives are available industry wide to improve base stock properties and protect metal surfaces however the wrong combination of these commodities can result in substandard performance *Surface Activity of Petroleum Derived Lubricants* explains how surface activity is affected by several factors the interfacial properties

Interfacial Properties of Petroleum Products Lilianna Z. Pillon, 2007-11-28 With mounting pressure to extract petroleum from oil sands and other unconventional sources oil refineries must adapt their processing methods to handle increasingly heavy crude oils Unlike traditional crude oils the properties of heavier crude oils include higher viscosity metal salt and acid content This causes their interfacial properties to deteriorate leading to problems such as sedimentation foaming emulsification rust and corrosion all of which make the manufacture transportation and storage of petroleum products more difficult *Interfacial Properties of Petroleum Products* examines conventional and non conventional processing techniques for crude oils and documents their effects on the composition and properties of petroleum products at the oil solid oil air oil water and oil metal interfaces Focusing on surface activity the author examines the undesirable effects of processes such as solvent extraction desalting dewaxing catalyst deactivation and hydroprocessing as well as trace element and water contamination With each process the author presents methods for improving interfacial properties including the use of surface active additives demulsifiers antifoaming agents and corrosion rust inhibitors A distinctive and up to date source of materials published together for the first time *Interfacial Properties of Petroleum Products* will help engineers design more cost effective and resource efficient processing methods for heavier crude oils based on the properties of the crude oil extracted

Chemistry and Technology of Lubricants Roy M. Mortier, Malcolm F. Fox, Stefan Orszulik, 2011-04-14 *Chemistry and Technology of Lubricants* describes the chemistry and technology of base oils additives and applications of liquid lubricants This Third Edition reflects how the chemistry and technology of lubricants has developed since the First Edition was published in 1992 The acceleration of performance development in the past 35 years has been as significant as in the previous century Refinery processes have become more precise in defining the physical and chemical properties of higher quality mineral base oils New and existing additives have improved performance through enhanced understanding of their action Specification and testing of lubricants has become more focused and rigorous *Chemistry and Technology of Lubricants* is directed principally at those working in the lubricants industry as well as individuals working within academia seeking a chemist's viewpoint of lubrication It is also of value to

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