



Process Chemistry of Lubricant Base Stocks (Chemical Industries)

Thomas R. Lynch

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Advances in processing methods are not only improving the quality and yield of lubricant base stocks, they are also reducing the dependence on more expensive crude oil starting materials. **Process Chemistry of Lubricant Base Stocks** provides a comprehensive understanding of the chemistry behind the processes involved in petroleum base stock production from crude oil fractions.

This book examines hydroprocessing technologies that, driven by the demand for higher performance in finished lubricants, have transformed processing treatments throughout the industry. The author relates the properties of base stocks to their chemical composition and describes the process steps used in their manufacture. The book highlights catalytic processes, including hydrocracking, hydrofinishing, and catalytic dewaxing. It also covers traditional solvent-based separation methods used to remove impurities, enhance performance, and improve oxidation resistance. The final chapters discuss the production of Food Grade white oils and paraffins and the gas-to-liquids processes used to produce highly paraffinic base stocks via Fischer-Tropsch chemistry.

Process Chemistry of Lubricant Base Stocks provides historical and conceptual background to the technologies used to make base stocks, thorough references, and a unique emphasis on chemical, not just engineering, aspects of lubricant processing—making this book an ideal and practical reference for scientists across a wide range of disciplines.

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