



# Lubricant Additives: Chemistry and Applications, Second Edition (Chemical Industries)

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## Lubricant Additives: Chemistry and Applications, Second Edition (Chemical Industries) From *imusti*

Cost, environmental, and performance issues coupled with legislative changes, new engine oil requirements, and technology development for exploration of space and the oceans are changing the lubrication additive market. Reflecting how the need for new applications drives the development of new lubricant additives, **Lubricant Additives: Chemistry and Applications, Second Edition** presents methods to:

- Improve the performance, efficiency, and stability of lubricants
- Protect metal surfaces from wear
- Select lubricant additives for the food processing industry
- Select the most appropriate ashless additives
- Avoid microbial degradation of lubricants
- Lower toxicity

*And describes:*

- Standard lubricant testing methods and product specifications
- Mechanisms and benefits of specific types of lubricant additives
- Recent industry trends

### Up-to-Date Coverage of Lubricant Additive Chemistry and Technology

Addressing new trends in various industrial sectors and improvements in technology, this second edition provides detailed reviews of additives used in lubricant formulations, their chemistry, mechanisms of action, and trends for major areas of application. It explores the design of cost-effective, environmentally friendly lubricant technologies and lubricants for automotive, industrial, manufacturing, aerospace, and food-processing applications. An extensive list of online industry resources is available for download at [crcpress.com](http://crcpress.com).

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#### About the Author

**Leslie R. Rudnick** is president of Designed Materials Group. He previously served as the technical director at Ultrachem Inc., was a senior scientist at The Pennsylvania State University Energy Institute, and worked for several Fortune 500 companies. An STLE fellow and ACS member, he serves on the editorial board of the *Journal of Synthetic Lubrication* and is the co/author and co/editor of over 100 journal articles, book chapters, and books. He holds 29 US patents as well as a BS from the University of Iowa and an MS and Ph.D from Rutgers University.

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