Fuels and Fuel-Additives
S. P. Srivastava, Jenő Hancsók

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DESCRIPTION

Examines all stages of fuel production, from feedstocks to finished products

Exploring chemical structures and properties, this book sheds new light on the current science and technology of producing energy efficient and environmentally friendly fuels. Moreover, it explains the role of fuel-additives in the production cycle. This expertly written and organized guide to fuels and fuel-additives also presents requirements, rules and regulations, including US and EU standards governing automotive emissions, fuel quality and specifications, alternate fuels, biofuels, antioxidants, deposit control detergents/dispersants, stabilizers, corrosion inhibitors, and polymeric fuel-additives.

Fuels and Fuel-Additives covers all stages and facets of the production of engine fuels as well as heating and fuel oils. The book begins with a quick portrait of the future of fuels and fuel production. Then, it sets forth the regulations controlling exhaust gas emissions and fuel quality from around the world. Next, the book covers:

• Processing of engine fuels derived from crude oil, including the production of blending components
• Production of alternative fuels
• Fuel-additives for automotive engines
• Blending of fuels
• Key properties of motor fuels and their effects on engines and the environment

• Aviation fuels

The final chapter of the book deals with fuel oils and marine fuels. Each chapter is extensively referenced, providing a gateway to the primary and secondary literature in the field. At the end of the book, a convenient glossary defines all the key terms used in the book.

Examining the full production cycle from feedstocks to final products, *Fuels and Fuel-Additives* is recommended for students, engineers, and scientists working in fuels and energy production.

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**ABOUT THE AUTHOR**

SOM PRAKASH SRIVASTAVA, MSc, DPhil, has forty-five years of research experience in the field of fuels, lubricants, and additives. He is a former executive director of the R&D center of Indian Oil Corporation (a global Fortune 500 company), and Director of Indian Oil Blending Ltd and Iftex Oils & Chemicals Ltd. Dr. Srivastava has been responsible for developing an entire range of fuels and lubricants for the Indian Oil Corporation. The author and coauthor of 200 research papers, thirty patents, and four books, Dr. Srivastava is currently an independent consultant on fuels and lubricants.

JEN# HANCSÓK, MSc, Doctor of Hungarian Academy of Sciences, is head of the MOL Department of Hydrocarbon and Coal Processing at the University of Pannonia and a consultant of the international oil and gas company, MOL Plc. He is the author or coauthor of more than 700 papers and presentations, and holds fourteen patents that are applied in the chemical industry. Dr. Hancsók devotes his research to the study and development of engine fuels, engine oils, and their additives, working with both fossil and renewable energy sources.

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