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Hydroprocessing for Clean Energy: Design, Operation, and Optimization
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DESCRIPTION

Provides a holistic approach that looks at changing process conditions, possible process design changes, and process technology upgrades

• Includes process integration techniques for improving process designs and for applying optimization techniques for improving operations focusing on hydroprocessing units.

• Discusses in details all important aspects of hydroprocessing – including catalytic materials, reaction mechanism, as well as process design, operation and control, troubleshooting and optimization

• Methods and tools are introduced that have a successful application track record at UOP and many industrial plants in recent years

• Includes relevant calculations/software/technologies hosted online for purchasers of the book

ABOUT THE AUTHOR

Frank Zhu, PhD, is Senior Fellow at Honeywell UOP, Des Plaines. He is a leading expert in industrial process design, modeling and energy optimization with more than 80 publications and 30 patents. He is the co-founder of the ECI International Conference:
CO2 Summit, the recipient of AIChE Energy and Sustainability Award, and the author of *Energy and Process Optimization for the Process Industries* by Wiley/AICHE.

**Richard Hoehn** is a Senior Fellow at Honeywell UOP, Des Plaines where he has been employed for 42 years, 31 of which have been in the field of hydroprocessing. He received a BS in chemical engineering from Purdue University. He currently holds 36 US patents and has received the Ernest W. Thiele Award from the Chicago Section of the AIChE.

**Dr. Vasant Thakkar**, PhD, was a Senior Fellow at Honeywell UOP, Des Plaines, before retiring in 2015. Vasant worked in Refining R&D Group for over 36 years. Vasant received Honeywell Distinguished Technologist award in 2014. Vasant holds 38 US patents. He received Ph. D. in chemical Engineering from Colorado school of Mine. He held membership in AIChE and ASTM D2 committee.

**Edwin Yuh** is a Fellow at Honeywell UOP, Des Plaines where he has been employed for 37 years, 35 of which have been in the field of hydroprocessing. He received a BS in chemical engineering from Columbia University and a MS in chemical engineering from Northwestern University. Most of his UOP career is in technical service.

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