



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

Frank (Xin X.) Zhu, Richard Hoehn, Vasant Thakkar, Edwin Yuh

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**Hydroprocessing for Clean Energy: Design, Operation, and Optimization** Frank (Xin X.) Zhu, Richard Hoehn, Vasant Thakkar, Edwin Yuh

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



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