



Handbook of Spent Hydroprocessing Catalysts: Regeneration, Rejuvenation, Reclamation, Environment and Safety

By Meena Marafi, Anthony Stanislaus, Edward Furimsky

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This handbook serves scientists and researchers interested in any aspect of spent hydroprocessing catalysts. Its aim is to assist in the analysis and assessment of refined catalyst byproducts and processing options, to determine whether spent catalysts can be processed into productive resources. For non-regenerable spent catalysts, the book takes into consideration both safety and ecological implications of utilizing landfill and other waste options.

- Provides comprehensive guidance and assistance to those making decisions on the fate of spent catalysts, radically improving strategic options for refining organisations
- Offers solutions that maximize procedural, regulatory, safety, and preparedness benefits
- Contains detailed information on hazardous characteristics of spent and regenerated catalysts with deployment recommendations, and acts as a benchmark document for establishing threshold limits of regulated species as well as for developing procedures for handling spent catalysts to ensure environmental acceptance

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Editorial Review

About the Author

Dr. Marafi received her Ph.D. in Chemical Engineering from Aston University/England. Her areas of specialization include: petroleum refining/processes and catalysis, catalyst deactivation, regeneration, rejuvenation and recycling, crude oil assay, petroleum characterization and catalyst development. Dr. Marafi has over 88 publications, including, 2 books, 25 papers published in refereed journals, 25 papers presented in international/local conferences, and 36 reports (technical reports/final reports/progress reports related to projects carried out). Lead 14 contractual projects in the area of petroleum refining and catalysis.

Dr. Stanislaus has over 30 years of research experience in catalysts and processes related to petroleum refining. His research experience includes: upgrading of petroleum residues by catalytic hydroprocessing, deep desulfurization and aromatics hydrogenation of diesel blending streams (clean fuels production), naphtha catalytic reforming for octane improvement, kinetics of hydrotreating reactions, catalyst deactivation and regeneration, spent catalyst reactivation and utilization, catalyst development, characterization, and performance testing. He has published over 100 scientific papers in International Journals and books.

Dr. Furimsky has some forty years of research in the conversion of petroleum, coal and natural gas to various commercial products. The studies on upgrading petroleum feeds included hydrodesulfurization, hydrodenitrogenation, hydrodeoxygenation, catalyst deactivation and regeneration. The environmental and safety aspects as well as utilization options for spent refinery catalysts were part of the research as well. Scientific productivity includes two books, several book chapters and a dozen of reviews on various aspects of hydroprocessing catalysis, petroleum refining and utilization of refinery residues. Some 130 articles appeared in the referred scientific journals.

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