

Handbook of Petroleum Refining Processes (Chemical Process Technology Handbook Series)

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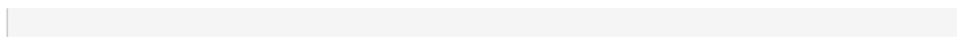
While no new petroleum refineries have been built in the United States during the last decade, it is believed that the new refinery capacity will be needed soon to accommodate a worldwide economic recovery, the demands of an increasing population, and changes in the type of crude oil available for refining. This comprehensive handbook discusses in detail the major technologies now available for the refining of crude oil. Covering both the technical and economic aspects of each process, it provides information necessary for a conceptual or first preliminary design of additions to existing refineries or construction of new refineries. Written by the licensors of the individual unit operations, the handbook gives state-of-the-art information and data on Alkylation and polymerization...cracking...catalytic re-forming...dehydrogenation...isomerization...hydrotreating...visbreaking and coking...separation processes...gas treatment and sulfur recovery...aromatics complexes...gasification. In addition to a thorough description of the process, each chapter covers the process chemistry and thermodynamics, product and by-product specifications, wastes and emissions, and the location and specification of all plants. Estimates of both capital and operating costs are also included. About the Editor: Roert A. Meyers, Ph.D., is presently Manager, Energy and Natural Resources, TRW Energy Division, Redondo Beach, California. In addition to publishing some 50 scientific papers, he is the author of four books and the editor of Handbook of Syncfuels Technology (McGraw-Hill), the first volume in the Chemical Process Handbook Series. He also served as Chairman of the Executive Advisory Board for American Association of Publishers' best book in 1984 in Technology and Engineering, A Guide to Nuclear Power Technology.



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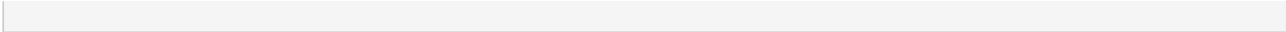
While no new petroleum refineries have been built in the United States during the last decade, it is believed that the new refinery capacity will be needed soon to accommodate a worldwide economic recovery, the demands of an increasing population, and changes in the type of crude oil available for refining. This comprehensive handbook discusses in detail the major technologies now available for the refining of crude oil. Covering both the technical and economic aspects of each process, it provides information necessary for a conceptual or first preliminary design of additions to existing refineries or construction of new refineries. Written by the licensors of the individual unit operations, the handbook gives state-of-the-art information and data on Alkylation and polymerization...cracking...catalytic reforming...dehydrogenation...isomerization...hydrotreating...visbreaking and coking...separation processes...gas treatment and sulfur recovery...aromatics complexes...gasification. In addition to a thorough description of the process, each chapter covers the process chemistry and thermodynamics, product and by-product specifications, wastes and emissions, and the location and specification of all plants. Estimates of both capital and operating costs are also included. About the Editor: Roert A. Meyers, Ph.D., is presently Manager, Energy and Natural Resources, TRW Energy Division, Redondo Beach, California. In addition to publishing some 50 scientific papers, he is the author of four books and the editor of Handbook of Synfuels Technology (McGraw-Hill), the first volume in the Chemical Process Handbook Series. He also served as Chairman of the Executive Advisory Board for American Association of Publishers' best book in 1984 in Technology and Engineering, A Guide to Nuclear Power Technology.

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