Industrial Catalysis. A Practical Approach. 2nd Edition

Description: Despite the fact that more than 90% of production processes in industry are catalyzed, most chemists and engineers are restricted to trial and error when searching for the proper catalyst. This book is the first to emphasize the industrial aspects of catalysis and is also particularly well suited for self-study. It is dedicated to both homogeneous and heterogeneous catalysis and this second edition also includes biocatalysis, electrocatalysis, photocatalysis, asymmetric catalysis and fine chemicals manufacture: In addition, topics such as zeolites, metals, olefin catalysis and environmental catalysis are now discussed in more detail. The book aids practically oriented readers in familiarizing themselves with the processes of catalyst development and testing and therefore deals with aspects of test planning, optimization and reactor modeling and simulation using the easy-to-learn PC program POLYMATH. Finally, well over 100 exercises help to test and consolidate the gained knowledge.

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