DESCRIPTION

Written by an excellent, highly experienced and motivated team of lecturers, this textbook is based on one of the most successful courses in catalysis and as such is tried-and-tested by generations of graduate and PhD students, i.e. the Catalysis-An-Integrated-Approach (CAIA) course organized by NIOK, the Dutch Catalysis research school.

It covers all essential aspects of this important topic, including homogeneous, heterogeneous and biocatalysis, but also kinetics, catalyst characterization and preparation, reactor design and engineering.

The perfect source of information for graduate and PhD students in chemistry and chemical engineering, as well as for scientists wanting to refresh their knowledge.

ABOUT THE AUTHOR

Ulf Hanefeld is Professor of Biocatalysis at the Department of Biotechnology at Delft University of Technology, The Netherlands. His research focuses on the hydroxynitrile lyase enzymes, heterogeneous catalysis combined with biocatalysis, and more broadly on the catalytic formation of carbon-carbon bonds. Besides his extensive research portfolio, Hanefeld is an important figurehead for education in biocatalysis.
Leon Lefferts was appointed Professor at Twente University in 1999, after having worked at the industrial laboratories of DSM for 12 years. He has been visiting professor at both Tokyo Institute of Technology, 2005?2007, as well as at Aalto University in Helsinki since 2011. His research interests are within the field of applied heterogeneous catalysis, with emphasis on activation of stable molecules, e.g. methane, carbon dioxide and water, heterogeneous catalyst in gas-liquid systems as well as catalytic upgrading of biomass based feeds, e.g. flash pyrolysis oil.

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