DESCRIPTION

Edited by two of the experts in the field, the central aim is to show organic chemists working in process development that enantioselective catalysis is suitable for the large-scale production of enantioenriched intermediates. In so doing, it is equally a source of information and inspiration for academic research, and, with its contribution by Noble prizewinner W. S. Knowles, will also heighten the status of industrial catalyst specialists working in the exciting field of enantioselective catalysis.

Some 25 contributions from top industrial researchers around the world present case studies on the development of the widest possible range of large-scale enantioselective processes, featuring stereoselective production processes of fine-chemicals, agrochemicals and pharmaceuticals. Clearly structured according to the nature of the task, this handbook adopts a problem-driven approach such that readers can easily find how colleagues have dealt with a similar situation.

ABOUT THE AUTHOR

Hans-Ulrich Blaser carried out this doctoral research with A. Eschenmoser at the Federal Institute of Technology (ETH) Zürich, from which he received the Ph.D. degree in 1971. Between 1971 and 1975 he held postdoctoral positions at the University of Chicago (J. Halpern), Harvard University (J.A. Osborn), and Monsanto (Zürich). During 20 years at CibaGeigy (1976-1996) he gained practical experience at R&D in the fine chemicals and pharmaceutical industry, which continued at Novartis (1996-1999) and at Solvias where he presently is chief technology officer. During his industrial career he has developed and implemented numerous catalytic routes for agrochemicals, pharmaceuticals and fine chemicals both as project leader and section head. His
main interests are focused on (enantio) selective catalysis and the integration of catalytic steps into the syntheses of commercial products.

**Elke Schmidt** carried out her doctoral research with Prof. Christian Wandrey at the Institute for Biotechnology (Nuclear Research Center) in Juelich. She received her Ph.D. degree in 1987 from the Institute for Chemistry of the Rheinische Friedrich Wilhelm University, Bonn. During the last 16 years at Ciba-Geigy, Norvatis and Syngenta, she held various positions in R&D, during the last 10 years in Crop Protection Research.

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