

This reference covers the wide and rapidly growing field of biocatalysis. It combines complementary expertise from such areas as microbiology, enzymology, molecular biology, structural biology and organic chemistry, thus highlighting the interdisciplinary nature of the subject. With its special focus on progress and new developments towards environmentally beneficial reactions with high levels of selectivity for the production of key compound classes, this book will enlighten both chemists and biologists as to the advances and opportunities existing in enzyme catalysis.



Wolf-Dieter Fessner obtained his PhD from the University of Freiburg, following which he carried out postdoctoral research at Harvard University with George Whitesides and at the University of Southern California, Los Angeles, with George Olah. Since 1998 he has been Full Professor of Organic Chemistry at the Technische Universität Darmstadt. His primary research interest is focused on the development of practical methods for enzymatic carbon-carbon bond formation and oligosaccharide synthesis, and on the interface between chemical and biological catalysis.



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