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Kurt Faber obtained his PhD in synthetic organic chemistry at the University of Graz in 1982. He then became a postdoctoral fellow at the Memorial University of Newfoundland. After moving to TU Graz as an University assistant, Faber was a visiting senior scientist at the University of Tokyo and at Exeter University.

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This well-established textbook on biocatalysis provides a basis for undergraduate and graduate courses in modern organic chemistry, as well as a condensed introduction into this field. After a basic introduction into the use of biocatalysts—principles of stereoselective transformations, enzyme properties and kinetics—the different types of reactions are explained according to the 'reaction principle', such as hydrolysis, reduction, oxidation, C–C bond formation, etc. Special techniques ...

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The use of biocatalysts, employed either as isolated enzymes or whole microbial cells, offers a remarkable arsenal of highly selective transformations for state-of-the-art synthetic organic chemistry. Over the last two decades, this methodology has become an indispensable tool for asymmetric synthesis, not only at the academic level, but also on an industrial scale. This well-established textbook on biocatalysis provides a basis for undergraduate and graduate courses in modern organic chemistry, as well as a condensed introduction into this field. After a basic introduction into the use of biocatalysts—principles of stereoselective transformations, enzyme properties and kinetics—the different types of reactions are explained according to the 'reaction principle', such as hydrolysis, reduction, oxidation, C–C bond formation, etc. Special techniques, such as the use of enzymes in organic solvents, immobilization techniques and modified or artificial enzymes, are treated in a separate section. A final chapter deals with thebasic rules for the safe and practical handling of biocatalysts. In this completely revised 6th edition, emphasis has been given to an improved didactic style including colored graphics in order to facilitate a deeper understanding of the underlying principles. New developments, such as transamination, enzyme promiscuity and applications on industrial scale within the field of 'white biotechnology' are included.

The use of natural catalysts - enzymes - for the transformation of non-natural is not at all new: they have been used for more man-made organic compounds than one hundred years, employed either as whole cells, cell organelles or isolated enzymes [1]. Certainly, the object of most of the early research was totally different from that of the present day. Thus the elucidation of biochemical pathways and enzyme mechanisms was in the foreground of the reasearch some decades ago. It was mainly during the 1980s that the enormous potential of applying natural catalysts to transform non-natural organic compounds was recognized. What started as a trend in the late 1970s could almost be called a fashion in synthetic organic chemistry in the 1990s. Although the early euphoria during the 'gold rush' in this field seems to have eased somewhat, there is still no limit to be seen for the future development of such methods. As a result of this extensive, recent research, there have been an estimated 5000 papers published on the subject [2]. To collate these data as a kind of 'super-review' would clearly be an impossible task and, furthermore, such a hypothetical book would be unpalatable for the non-expert.

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estimated 13 000 papers published on the subject. To collate these data as a kind of 'super-review' would clearly be an impossible task and, furthermore, such a hypothetical book would be unpalatable for the non-expert [3-7].

Whereas the hydrolases such as proteases, esterases and lipases are sufficiently well researched to be applied in every standard laboratory, other types of enzymes are still waiting to be discovered with respect to their applicability in organic-chemistry transformations on a preparative scale. This latter point is stressed here, with the focus on the newcomer-enzymes'which show great synthetic potential.

Written by Stanley Manahan, Fundamentals of Sustainable Chemical Science has been carefully designed to provide a basic introduction to chemistry, including organic chemistry and biochemistry, for readers with little or no prior background in the subject. Manahan, bestselling author of many environmental texts, presents the material in a practical

Written by an expert, using the same approach that made the previous two editions so successful, Fundamentals of Environmental Chemistry, Third Edition expands the scope of book to include the strongly emerging areas broadly described as sustainability science and technology, including green chemistry and industrial ecology. The new edition includes: Increased emphasis on the applied aspects of environmental chemistry Hot topics such as global warming and

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The development of new asymmetric catalytic methods is of fundamental importance to industrial synthetic chemistry. The demand for optically pure

synthetic intermediates and the drive to adopt greener methods of synthesis have stimulated a growing interest in biocatalysis as a selective and environmentally benign synthetic technique. Practical Biotransformations: A Beginner's Guide provides an introduction to microbes and enzymes and demonstrates their practical applications in synthetic organic chemistry. Designed as a laboratory manual, this user-friendly guide discusses standard laboratory techniques, with appropriate advice on aspects of microbial practice and associated safety. Topics covered include: An introduction to equipment in a biotransformations laboratory An overview of biocatalyst sources Maintenance and growth of biocatalysts Example biotransformations using commercially available microbes and enzymes Basic gene cloning and the use of 'designer' biocatalysts This book will be a valuable resource for synthetic organic chemists with little or no experience of biochemistry or microbiology. It is the author's hope that this text will inspire readers to consider biocatalytic methods as real alternatives to traditional synthetic solutions.

The three Science of Synthesis volumes on "Biocatalysis in Organic Synthesis" present the possibilities offered by modern biocatalysis to the nonspecialist academic and industrial readership who are involved in practical organic synthesis. The goal of the reference work is to start a new wave of enthusiasm for

biocatalysis in the broader community and to give an overview of the field. As all SoS volumes, "Biocatalysis in Organic Synthesis" offers critical reviews of organic transformations by experts, including experimental procedures. The organization is based on the type of reaction performed under biocatalysis. Volume 3 begins by describing oxidation. A chapter on dihydroxylation is followed by reviews of alkane oxidation. Oxidations of alcohols, carbonyl compounds, and heteroatoms are also covered, as are halogenations. The use of biocatalysts in total synthesis, cascade reactions, and the development of large-scale processes are considered. Finally, emerging trends are outlined.