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Stability and Stabilization of Biocatalysts,
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The stability of biocatalysts was

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considered in the context of their industrial application. For example, Onno Misset (Gist-Brocades, Delft, The Netherlands) described how to determine the processes that inactivate industrial enzymes using a flow diagram combining the results of two-dimensional electrophoresis, mass spectrometry and circular dichroism.

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Stability of biocatalysts. Despite their many favorable qualities, the marginal stability of biocatalysts in many types of reaction media often has prevented or delayed their implementation for industrial-

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scale synthesis of fine chemicals and pharmaceuticals. Consequently, there is great interest in understanding effects of solution conditions on protein stability, as well as in developing strategies to improve protein stability in desired reaction media.

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Six years after the symposium on Stability and Stabilization of Enzymes, a second symposium, Stability and Stabilization of Biocatalysts, on which this book is based, was organized. At the symposium, 210 participants representing all continents came together to learn from 150 oral and poster communications.

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number of actual industrial biocatalysts are

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being produced using such genetic and protein engineering tools. Operational stabilization of biocatalysts is an alternative. Immobilized and crystallized biocatalysts are stable forms already in use. Also engineering the reaction media can contribute to biocatalyst stabilization. This is a key fac-

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The stability of the enzyme is very much dependent on the moisture content and, at low contents, T_m (or better T_g for solids) decreases with increasing content (T_g : glass transition temperature). In addition to an improved thermodynamic stability,

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the dry enzyme is also better resistant against microbiological degradation or chemical inactivation (except gas mediated inactivations like oxidation).

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Unfortunately, exploiting such advantages

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is often limited by the low stability and/or activity of the biocatalysts. Enzymes are known to be denatured in the presence of relatively small amounts of polar solvents [2], and in non-aqueous media the catalytic activity is significantly suppressed in comparison with their aqueous level [3]. The problem of low

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conventional means, like immobilization,

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and new methodologies, like cross-linked
enzyme crystals, is broadening the scope
of biocatalysis. Increased stability of
enzymes in non-aqueous media is also a
relevant technological asset for the
development of biocatalysis in organic
synthesis.

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STABILITY OF BIOCATALYSTS

Therefore biocatalyst stability and stabilization is a central issue of biotechnology today. In fact, biocatalyst operational stability will determine to a large extent the viability of the process, be it new or faced to compete with an already existing technology.

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Six years after the symposium on Stability

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and Stabilization of Enzymes, a second
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A systematic understanding of parameters affecting biocatalyst efficiency, that is, biocatalyst activity and stability, is essential for a rational generation of improved biocatalysts. Today, systematic approaches only exist for increasing the

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activity of whole-cell biocatalysts. They are still largely missing for whole-cell biocatalyst stability.

Maximizing the stability of metabolic engineering-derived ...

The stability of TZ-PEG 5000-lipases A and B was studied at different values of

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pH. At pH 7.2, the modification does not produce a significant stabilization (results not shown). However, at pH 9.0, the TZ-PEG 5000-lipases A and B are considerably more stable than the native enzymes.

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On the other hand, CLEA-MP* was the most active and stable biocatalyst, presenting higher recovered activity (33.4% of cellulase), higher thermal stability (2.39 stabilization factor) and improved reusability (8cycles).

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came together to learn from 150 oral and poster communications. The volume brings up-to-date the work already going on, and identifies possible breakthroughs in the research. This timely book therefore presents cutting edge developments in topics such as non-covalent processes in solution, protein engineering and

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This book describes the essential steps in the development of biocatalytic processes from concept to completion. It is a carefully integrated text which combines the fundamentals of biocatalysis with

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textbook offers an instructive and comprehensive overview of our current knowledge of biocatalysis and enzyme technology. The book now contains about 40% more printed content. Three chapters are completely new, while the others have been thoroughly updated, and a section with problems and solutions as well as

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These proceedings contain most of the oral presentations and posters of the international symposium on Stability and Stabilization of Enzymes held in Maastricht in November 1992. They provide a comprehensive overview of the

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state-of-the-art in this field. The possible applications of enzymes are enormous. Years of development have seen many enzymes brought onto the market, but they are still expensive to use. Therefore, their efficient application is a prerequisite for common usage. One of the main factors for this efficiency is the stability of the

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enzymes. The topics thus ranged from the extensive fundamental thermodynamic knowledge gathered in academic research to the practical applied knowledge built up in industry during the time that enzymes have been produced commercially. The subject Stability and Stabilization of Enzymes was discussed from various

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points of view, as reflected in the themes of the symposium sessions. In the session on Fundamentals of Enzyme Stabilisation the thermodynamic background of the phenomenon was highlighted. In yet another session, the recently developed analytical tools to measure enzyme stability and stabilisation

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were discussed. Further sessions comprised the physical, chemical and biological ways to obtain enzyme stabilisation and finally, the industrial practice of enzyme stabilisation was treated by representatives of the world's most important enzyme producers. The book will be of interest to researchers in

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universities and industry in the fields of
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research on stable enzymes are explained and brought into context with possible industrial applications. Downstream processing technology as well as biocatalytic and biotechnological production processes from global players display the enormous potential of biocatalysts. Application of "extreme"

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Of Biocatalysts (i.e. unconventional,
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Biophysical chemistry is one of the most

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Biophysical Chemistry from advanced principles, as we include some of the most advanced subject matter, such as advanced topics in catalysis applications (first section) and therapeutic applications (second section). This led us to limit our selection to only chapters with high standards, therefore there are only six

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chapters, divided into two sections. We have assumed that the interested readers are familiar with the fundamentals of some advanced topics in mathematics such as integration, differentiation, and calculus and have some knowledge of organic and physical chemistry, biology, and pharmacy. We hope that the book will be

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valuable to graduate and postdoctoral students with the requisite background, and by some advanced researchers active in chemistry, biology, biochemistry, medicine, pharmacy, and other sciences.

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In the past decade, researchers have made tremendous progress in the field of

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techniques in enzyme stabilization.
Chapters outline protocols for enzyme
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