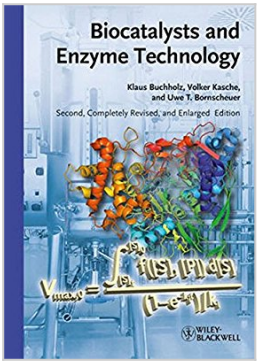

Biocatalysts and Enzyme Technology

By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer

Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer

This second edition of a bestselling 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 new case studies have been added. Following an introduction to the history of enzyme applications, the text goes on to cover in depth enzyme mechanisms and kinetics, production, recovery, characterization and design by protein engineering. The authors treat a broad range of applications of soluble and immobilized biocatalysts, including wholecell
systems, the use of non-aqueous reaction systems, applications in organic synthesis, bioreactor design and reaction engineering. Methods to estimate the sustainability, important internet resources and their evaluation, and legislation concerning the use of biocatalysts are also covered.

Biocatalysts and Enzyme Technology

By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer

Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer

This second edition of a bestselling 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 new case studies have been added.
Following an introduction to the history of enzyme applications, the text goes on to cover in depth enzyme mechanisms and kinetics, production, recovery,
characterization and design by protein engineering. The authors treat a broad range of applications of soluble and immobilized biocatalysts, including wholecell
systems, the use of non-aqueous reaction systems, applications in organic synthesis, bioreactor design and reaction engineering. Methods to estimate the
sustainability, important internet resources and their evaluation, and legislation concerning the use of biocatalysts are also covered.

Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer Bibliography

- Sales Rank: #2235145 in Books
- Brand: Brand: Wiley-Blackwell
- Published on: 2012-12-26
- Original language: English
- Number of items: 1
- Dimensions: 9.55" h x 1.25" w x 6.80" l, 2.95 pounds
- Binding: Paperback
- 626 pages

Editorial Review

From the Back Cover
This second edition of a bestselling 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 new case studies have been added.

Following an introduction to the history of enzyme applications, the text goes on to cover in depth enzyme mechanisms and kinetics, production, recovery, characterization and design by protein engineering. The authors treat a broad range of applications of soluble and immobilized biocatalysts, including wholecell systems, the use of non-aqueous reaction systems, applications in organic synthesis, bioreactor design and reaction engineering. Methods to estimate the sustainability, important internet resources and their evaluation, and legislation concerning the use of biocatalysts are also covered.

Further material and all figures are available at
www.wiley-vch.de/home/biocatalysts

About the Author
Born in 1941, Klaus Buchholz studied chemistry at the universities of Saarbr?cken und Heidelberg, graduating in 1967. In 1969 he received his PhD from the TU Munich, after which he worked as a researcher at Dechema e.V. in Frankfurt/Main until 1982. In 1981 he qualified as a professor at the TU Braunschweig, where he then became department head at the Institute for Agricultural Technology and Sugar Industry. From 1988 onwards he was the provisional Head of the Institute, before becoming Professor for Technology of Carbohydrates at the Institute for Technical Chemistry in 1991. His main research areas include biocatalysts, enzymatic processes for the modification and synthesis of saccharides, environmental biotechnology, flow bed reactors with immobilized biocatalysts, and the synthesis of saccharide polymers.

Volker Kasche, born in 1939, studied chemistry, mathematics, and physics at the University of Uppsala, Sweden, receiving his degree in 1964. This was followed by a year as a NATO research fellow at Brandeis University, USA. He received his doctorate from the University of Uppsala in 1971, and in 1973 became Professor for Physical Biology at the University of Bremen, Germany. He has been Professor for Biotechnology at the TU Hamburg-Harburg, Germany, since 1986, focusing his research on fundamentals of equilibrium and kinetically controlled reactions catalyzed by free and immobilized hydrolases, the production, post-translational processing and purification of penicillin amidases and serine peptidases by affinity chromatography, as well as fundamentals of mass transfer in chromatography and enzyme technology.

Born in 1964, Uwe Bornscheuer studied chemistry at the University of Hanover, Germany, where he graduated in 1990. After receiving his PhD in 1993 from the Institute of Technical Chemistry at the same university, he spent a postdoctoral year at the University of Nagoya, Japan. He then joined the Institute of Technical Biochemistry, University of Stuttgart, Germany, where he qualified as a professor in 1998. He has been Professor for Technical Chemistry & Biotechnology at the University of Greifswald, Germany since 1999. Professor Bornscheuer's main research interest is the application of enzymes in the synthesis of optically active compounds and in lipid modification.

Users Review

From reader reviews:

Christopher Morton:

Book is to be different for every grade. Book for children until adult are different content. As you may know that book is very important normally. The book Biocatalysts and Enzyme Technology seemed to be making you to know about other knowledge and of course you can take more information. It is quite advantages for you. The e-book Biocatalysts and Enzyme Technology is not only giving you much more new information but also to become your friend when you experience bored. You can spend your own spend time to read your guide. Try to make relationship while using book Biocatalysts and Enzyme Technology. You never truly feel lose out for everything if you read some books.

James Fong:

The book with title Biocatalysts and Enzyme Technology has a lot of information that you can learn it. You can get a lot of advantage after read this book. This specific book exist new know-how the information that exist in this publication represented the condition of the world at this point. That is important to yo7u to understand how the improvement of the world. This specific book will bring you inside new era of the glowbal growth. You can read the e-book on the smart phone, so you can read the item anywhere you want.

Louis Trent:

Playing with family inside a park, coming to see the marine world or hanging out with good friends is thing that usually you have done when you have spare time, then why you don't try matter that really opposite from that. Just one activity that make you not sensation tired but still relaxing, trilling like on roller coaster you have been ride on and with addition of information. Even you love Biocatalysts and Enzyme Technology, you could enjoy both. It is great combination right, you still need to miss it? What kind of hang type is it? Oh can happen its mind hangout folks. What? Still don't get it, oh come on its called reading friends.

Chad Steinberger:

This Biocatalysts and Enzyme Technology is new way for you who has intense curiosity to look for some information because it relief your hunger info. Getting deeper you on it getting knowledge more you know or else you who still having small amount of digest in reading this Biocatalysts and Enzyme Technology can be the light food to suit your needs because the information inside that book is easy to get by anyone. These books develop itself in the form that is certainly reachable by anyone, yes I mean in the e-book web form. People who think that in reserve form make them feel tired even dizzy this reserve is the answer. So there is absolutely no in reading a book especially this one. You can find actually looking for. It should be here for anyone. So , don't miss the idea! Just read this e-book variety for your better life along with knowledge.

Read Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer for online ebook

Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer books to read online.

Online Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer ebook PDF download

Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer Doc

Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer Mobipocket

Biocatalysts and Enzyme Technology By Klaus Buchholz, Volker Kasche, Uwe Theo Bornscheuer EPub