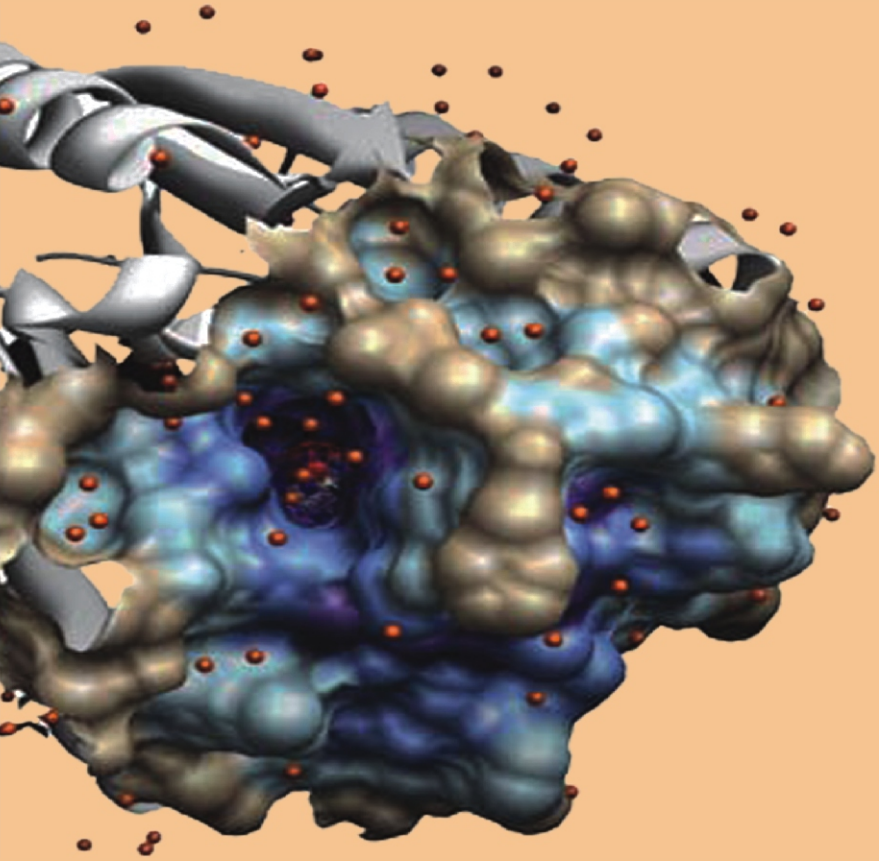
Enzyme Technology



S. Shanmugam
T. Sathishkumar

I.K. International

Enzyme Technology

Sunil\D\Book Work\Book\IK-International

Enzyme Technology

S. Shanmugam
Asst. Professor
Kumaraguru College of Technology
Coimbatore

T. Sathishkumar
Lecturer
Kumaraguru College of Technology
Coimbatore

I.K. International Publishing House Pvt. Ltd.

NEW DELHI • BANGALORE

Published by
I.K. International Publishing House Pvt. Ltd.
S-25, Green Park Extension
Uphaar Cinema Market
New Delhi-110 016 (India)
E-mail: ik_in@vsnl.net

ISBN: 978-93-80026-05-3

© 2009 I.K. International Publishing House Pvt. Ltd.

All rights reserved. No part of this book may be reproduced or used in any form, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without written permission from the publisher.

Published by Krishan Makhijani for I.K. International Publishing House Pvt. Ltd., S-25, Green Park Extension, Uphaar Cinema Market, New Delhi-110 016. Printed by Rekha Printers Pvt. Ltd., Okhla Industrial Area, Phase II, New Delhi-110 020.

DEDICATED TO OUR FAMILY MEMBERS

FOREWORD

Biotechnology has grown to an unimaginable magnitude because of our understanding of the structure and functional relationship of various biomolecules especially of enzymes. Enzymology is an important subject to students, researchers and scientists in biology and related fields. There are a number of books on enzymology written by scientists belonging to developed countries like US, UK etc. However, there is a need for a text book in the writing style familiar to the students of our country. In this direction this book is a good attempt by the authors.

This book deals with the history of enzymes, classification, extraction and isolation, purification, immobilization, applications and biosensors. A special emphasis has been given on enzyme kinetics that is the central focus in enzymology. This easily readable book on enzyme can be followed by the learners in chemistry, biochemistry, microbiology, biotechnology, botany and zoology.

Enzymes find applications in various industries like textile, food processing, leather, animal feed and pharmaceuticals. This book has brought out not only the basic aspect of enzymes but also the various applications. I wish the student community in India use this as a text book as well as a reference book, depending on their specialization and level of the academic programme.

I congratulate the authors S. Shanmugam and T. Sathishkumar for bringing out this book in a lucid written format packed with information. I also compliment the publishers for bringing out this book in an attractive way.

Dr. S. Sadasivam
(Former Director, Centre for Plant
Molecular Biology Tamil Nadu
Agricultural University, Coimbatore)
Dean (Academic)
Kumaraguru College of Technology

PREFACE

Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world. Science is the highest personification of the nation because that nation will remain the first which carries the furthest the works of thought and intelligence.

— Louis Pasteur

Enzymes are biocatalysts that play a pivotal role *in vitro* as well as *in vivo*. It is a well established macromolecule in the field of Biochemistry, Microbiology and Advanced Biotechnology. Many excellent text books are available that deals with the general aspects of enzymes. However, comprehensive presentations of certain topics like enzyme kinetics, immobilization, applications and enzymes as biosensors are rare. A full-fledged and thorough knowledge about of an enzyme's structure, its catalytic mechanism under normal homeostasis, its behavior under immobilization and thereby, its effective utilization in various fields is essential for all people working in the area of life sciences including, student's, research scholors and teachers.

The book comprises 8 chapters including recent and current hot topics such as immobilization, applications and biosensors. We, the authors feel that the enzyme kinetics is the back bone for its application part and that is why more importance have been given to that chapter. Many, perhaps most of the readers using this book will be well versed and benefited in the fundamentals of enzymes and a little bit in their applications part.

S. Shanmugam
T. Sathishkumar

PRODUCT NOT FOUND!

Product not found!

continue

Products By Alphabet

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z #

School Books

Oswaal Books
Class 9th Books
Class 10th Books
Class 11th Books
Class 12th Books

Engineering Books

RGPV Books & Notes
VTU Books & Notes
Free Engineering Books
Information Technology Books
Electrical Engineering Books

Competitive Exams

Bank PO Exam

Gate Books
Teaching Exams Books
AIEEE-NIT-JEE MAINS Books
UPSC Books

Professional Courses

ICSI Books & Study Materials
Chartered Accountant Books
Company Secretary Books
ICSI 7 days Trial
Latest Scanners

About KopyKitab.com

Kopykitab is India's 1st digital & multiple publishers platform. Kopykitab has largest collection of e-textbooks & branded digital content in Higher & School education. We have strong foundation of leading publishers & tutorials as content partners.

We offer e-textbook, Test Preparation, Notes & LMS for various curriculam to Students, Professionals & Institutes. These are same textbooks, way smarter. Our goal is to make education affordable & accessible.
A user can access the content in all electronic devices e.g. Mobile, PC & Tabs

Information

About Us
FAQ
Privacy Policy
Terms & Conditions
Payment Information

Links

ICSI eLibrary
KopyKitab eBook Reader
Contact Us
Site Map

My Account

Refer & Earn
My Account
Order History
Wish List
Newsletter
My Library
Office 365 Email Login
Google Login

Verified By

©2016 DigiBook Technologies (P) Ltd, All Rights Reserved. An ISO 9001:2008 Certified Company