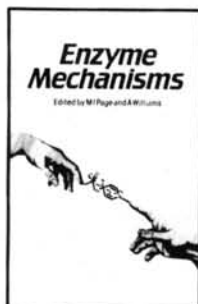


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## Enzyme Mechanisms

Edited by M. Page  
Huddersfield Polytechnic



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The mechanisms of enzyme catalysed reactions are now understood at the molecular level. Understanding how enzymes work is the first step towards the successful application of enzymes as catalysts in large scale synthesis both in the laboratory and industry. The design of new drugs as enzyme inhibitors is advanced by a knowledge of the reaction mechanism.

This book has several contributors who are experts in their own field, and each emphasises the important role that mechanisms play in building the bridges between chemistry and the biological sciences.

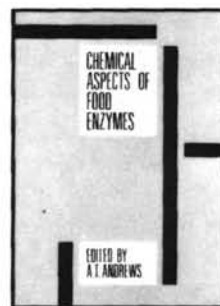
*Enzyme Mechanisms* discusses the chemistry and mechanisms of enzyme catalysed reactions and is suitable for readers of advanced undergraduate level and above.

## Chemical Aspects of Food Enzymes

The use of food enzymes to facilitate an industrial manufacturing process has many attractions compared to purely chemical reaction mechanisms. These include the speed of reaction, the fact that the reactions take place under mild conditions and, most importantly, that they are highly specific, often stereospecific. The mild conditions reduce energy costs and the high specificity minimises the need for downstream processing. There are problems however with enzyme stability, enzyme reactor poisoning and enzyme hygiene. The efficiency of the reaction can be reduced by build-up of product concentration and the adsorption of inactive components such as lipids or other biopolymers.

The manufacture of cheese, beer, bakery products and other fermented produce employs enzymes in their earliest applications. The use of enzymes in a more sophisticated manner can present difficulties with regard to the huge tonnages of materials that need to be processed.

This publication reviews current applications of enzymes in food processes. It should stimulate interest and point the way forward in this area of vital importance.



Edited by A. T. Andrews  
AFRC Institute of Food  
Research, Reading

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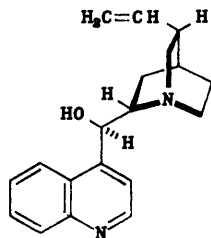
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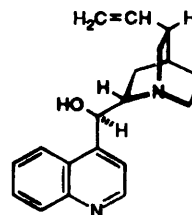
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