

CONTENTS

Preface	ix
OVERVIEWS	
1. Chemical modification of proteins : an overview	3
2. Fundamentals and applications of enzymatic modifications of proteins : an overview	57
FOOD AND NUTRITIONAL ASPECTS	
3. Nutritional and metabolic aspects of protein modification during food processing	91
4. ¹⁴ C-Methyl-labeled milk proteins for studies of protein interactions and proteolysis in milk	125
5. Covalent attachment of essential amino acids to proteins by chemical methods : nutritional and functional significance	149
6. Reversible modification of lysine : separation of proteins and nucleic acids in yeast	169
7. Proteinaceous surfactants prepared by covalent attachment of L-leucine <i>n</i> -alkyl esters to food proteins by modification with papain	199
8. Modification of proteins with proteolytic enzymes from the marine environment	223
9. The role of lime in the alkaline treatment of corn for tortilla preparation	245
PHARMACOLOGICAL ASPECTS	
10. Design of site-specific pharmacologic reagents : illustration of some alternative approaches by reagents directed towards steroid-hormone-specific targets	267
11. Characterization of a major drug binding site in human serum albumin	325
12. Proteolytic enzymes and their active-site-specific inhibitors : role in the treatment of disease	347
13. Properties in vivo of chelate-tagged proteins and polypeptides	369
Index	389