

about the book . . .

The highly successful first edition of this book reviewed the available methods of amino acid determination and discussed their relative advantages and disadvantages. This completely rewritten and updated edition incorporates the improvements that since have occurred in the field. Of prime importance to biochemical studies, methods and techniques of amino acid determination have developed rapidly, and the relative capabilities of the various procedures are now clearly understood. There are methods of great speed, sensitivity, and versatility that give reliable data on amino acid composition from small amounts of protein or peptide.

Bringing in the experience of expert contributors not present in the first edition, *Amino Acid Determination: Methods and Techniques (Second edition, revised and expanded)* assembles authoritative accounts of procedures and emphasizes the practical application of means of determination of amino acids. The automatic analyzer, which has strengthened its preeminent position in the field of amino acid determination, is reviewed, as are the applications of computer techniques to the control of automatic analyzers and to the computation of results. Also reviewed are gas chromatographic techniques, including procedures for the separation of amino acid enantiomers. The book also discusses hydrolytic procedures and the minimization of errors which may arise during hydrolysis.

With this book, the biochemist, clinician, analytical chemist, organic chemist, biologist, and medical research worker can select methods appropriate to his research and problem. The biological aspect of amino acid determination receives attention in the description of the analysis of physiological fluids.

about the editor . . .

STANLEY BLACKBURN is a former research scientist at the Wool Industries Research Association in Leeds, England, where he worked from 1938 to 1969. During this time his research interests included the structure and amino acid sequence of the proteins of wool keratin and end group determination of peptides and proteins. He has written more than 30 scientific papers dealing with protein analysis and structure, and is the author of *Enzyme Structure and Function* and *Protein Sequence Determination: Methods and Techniques*, both published by Marcel Dekker, Inc. Dr. Blackburn's current work centers on scientific writing and documentation. He is a Chartered Chemist and a Member of the Royal Institute of Chemistry and a member of both the Biochemical Society and the American Chemical Society.

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