



Chemistry of Peptide Synthesis

N. Leo Benoiton

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Chemistry of Peptide Synthesis is a complete overview of how peptides are synthesized and what techniques are likely to generate the most desirable reactions. Incorporating elements from the author's role of Career Investigator of the Medical Research Council of Canada and his extensive teaching career, the book emphasizes learning rather than memorization. The text uses clear language and schematics to present concepts progressively, carefully excluding unnecessary details and providing a historical context in which to appreciate the development of the field.

The author first outlines the fundamentals of peptide synthesis, focusing on the intermediates in aminolysis reactions. Gradually the text builds into discussions of the applicability of coupling reactions, stereomutation, methods of deprotection, solid-phase synthesis, side-chain protection and side reactions, and amplification on coupling methods. The book clarifies the differences between oxazolones from amino-acid derivatives and segments and the implications of their formation on the chiral integrity of products. The author offers a critical analysis of the mechanisms of coupling reactions and the desirability of preactivation. The text explains hindrance and the nucleophilicity of tertiary amines and rationalizes their use. The book also explores mechanisms of acidolysis and the dual role of nucleophiles as reactants and scavengers.

Chemistry of Peptide Synthesis supplies a broad, yet straightforward approach that appeals to those with limited knowledge of organic chemistry or chemists from other fields as well as in-depth coverage that can be appreciated by experienced peptidologists.

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