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William G. O'Neal

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University of Michigan

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Blei, George Odian, 2013-04-02 Organic Chemistry for Advanced Students Julius Berend Cohen, 1928 Organic Medicaments and Their Preparation Ernest Fourneau, 1925 General Register University of Michigan, 1970

Announcements for the following year included in some vols Computer-Aided Molecular Design Jean-Pierre Doucet, Jacques Weber, 1996-03-05 The computer aided design of novel molecular systems has undoubtedly reached the stage of a mature discipline offering a broad range of tools available to virtually any chemist. However, there are few books covering most of these techniques in a single volume and using a language which may generally be understood by students or chemists with a limited knowledge of theoretical chemistry. The purpose of this book is precisely to review in such a language both methodological aspects and important applications of computer aided molecular design (CAMD) with a special emphasis on drug design and protein modeling. Using numerous examples ranging from molecular models to shapes, surfaces and volumes, Computer Aided Molecular Design provides coverage of the role molecular graphics play in CAMD. The text also treats the very notion of the structure of molecular systems by presenting both the various experimental techniques giving access to it and the most common model builders based on force fields. Separate chapters are devoted to other important topics in CAMD such as Monte Carlo and molecular dynamics simulations, most common quantum chemical methods, derivation and visualization of molecular properties and molecular similarity. Finally, strategies used in protein modeling and drug design such as receptor mapping and the pharmacophore approach are presented and illustrated by several examples.

The book is addressed to students and researchers who wish to enter this new exciting field of molecular sciences but also practitioners in CAMD as a comprehensive source of refreshing information in their field. Key Features: Presents a comprehensive introduction to computer aided molecular design. Describes applications of CAMD through the use of numerous examples. Emphasizes strategies used in protein modeling and drug design. Includes separate chapters devoted to other important topics in CAMD such as Monte Carlo and molecular dynamics simulations, common quantum chemical methods, derivation and visualization of molecular properties, molecular similarity.

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General Organic and Biological Chemistry 2nd Edition with Chemistry as a Second Language Set Kenneth W. Raymond, 2007-10-19

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The Journal of Biological Chemistry, 1927 Vols 3 include the society's Proceedings 1907

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