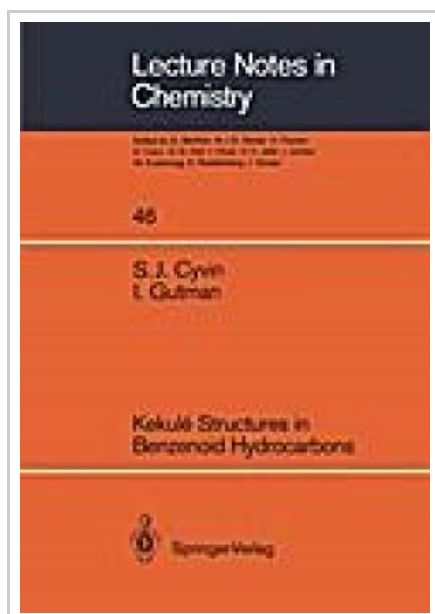




Kekulé Structures in Benzenoid Hydrocarbons

By Sven J. Cyvin

Springer Feb 1988, 1988. Taschenbuch. Book Condition: Neu. 244x170x20 mm. This item is printed on demand - Print on Demand Neuware - This text is an attempt to outline the basic facts concerning Kekulé structures in benzenoid hydrocarbons: their history, applications and especially enumeration. We further point out the numerous and often quite remarkable connections between this topic and various parts of combinatorics and discrete mathematics. Our book is primarily aimed toward organic and theoretical chemists interested in the enumeration of Kekulé structures of conjugated hydrocarbons as well as to scientists working in the field of mathematical and computational chemistry. The book may be of some relevance also to mathematicians wishing to learn about contemporary applications of combinatorics, graph theory and other branches of discrete mathematics. In 1985, when we decided to prepare these notes for publication, we expected to be able to give a complete account of all known combinatorial formulas for the number of Kekulé structures of benzenoid hydrocarbons. This turned out to be a much more difficult task than we initially realized: only in 1986 some 60 new publications appeared dealing with the enumeration of Kekulé structures in benzenoids and closely related topics. In...



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