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Authors:	Sujal.
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Abstract:	This thesis is devoted to a discussion of various aspects arising from the concept of aromaticity. Beginning with a short historical exploration of this concept, the thesis traces its development and understanding over a period of time. After a discussion on Hückel Molecular Orbital (HMO) method, we have used it to present a detailed mathematical derivation of the energy levels of a general monocyclic conjugated polyenes exhibiting both Huckel and Möbius topologies. This derivation augments the brief derivations of- ten found in the literature, particularly for Möbius topology. Following this, the thesis then presents a survey of various indicators used to quantify aro- maticity. Finally, the thesis explores the concept of multidimensional nature of aromaticity, highlighting its implications for comprehending aromaticity..
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