Estimating and Approximating the Total $\pi$-Electron Energy of Benzenoid Hydrocarbons

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Lower and upper bounds as well as approximate formulas for the total $\pi$-electron energy ($E$) of benzenoid hydrocarbons are deduced, depending only on the number of carbon atoms ($n$) and number of carbon-carbon bonds ($m$). These are better than the several previously known ($n$, $m$)-type estimates and approximations for $E$.

Key words: Total $\pi$-Electron Energy; Benzenoid Hydrocarbons.