

peri-Interactions in Naphthalenes, 11 [1]. A New Approach to the Investigation of Dative *peri* Bonding

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The failure of the *sum of van der Waals radii axiom* to provide information about donor-acceptor interactions in 8-dimethylamino-naphth-1-yl phosphines and their derivatives called for alternative methods. The coupling constants $J(\text{C},\text{H})$ of the Me_2N groups proved useful and indicate that in these compounds, $\text{N} \rightarrow \text{P}$ interactions are negligible.

Key words: Octet Rule, Naphthalene *peri*-Interactions, $\text{N} \rightarrow \text{P}$ Bonding, 1J and $^3J(\text{C},\text{H})$ Coupling