

***SYNTHESIS AND SPECTRAL STUDIES OF PLATINUM GROUP METAL  
COMPLEXES COMPRISING  $\eta^5$ - AND  $\eta^6$ -CYCLIC  $\pi$ - PERIMETER HYDROCARBONS  
WITH MULTIDENTATE NITROGEN DONOR LIGANDS***

**A THESIS SUBMITTED IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE DEGREE OF**

**DOCTOR OF PHILOSOPHY  
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