

**FIRST PRINCIPLES STUDIES OF ELECTRONIC
BANDSTRUCTURE AND ASSOCIATED PROPERTIES
OF METALLIC CuS_2 , INTER-METALLIC Ti_3M
($\text{M}=\text{Au}, \text{Pt}, \text{Ir}$), AND SEMI-METALLIC
 $\text{Sb}_2\text{Te}_x\text{Se}_{3-x}$ ($\text{X}=3, 2, 1, 0$) COMPOUNDS**

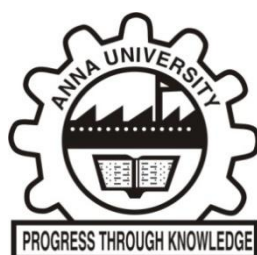
A THESIS

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