

“Materials science” report problem (Fujimori)

Describe metal-insulator transitions in transition-metal compounds within two pages of the A4 or letter size using all the following six keywords. Underline each key word.

1. 原子内クーロンエネルギー U (Intra-atomic Coulomb energy U)
2. 電荷移動エネルギー Δ (Charge-transfer energy Δ)
3. バンド幅制御 (Bandwidth control)
4. バンドフィリング制御 (Band-filling control)
5. 銅酸化物超伝導体 (Cu-oxide superconductors)
6. 鉄系超伝導体 (Fe-based superconductors)