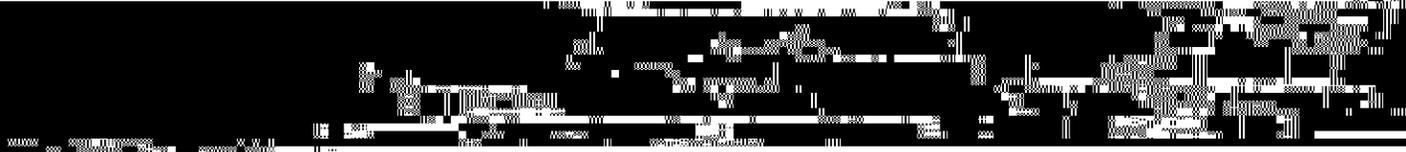


reviewed recently in ref. 1), the electronic structure of su  
 impurities in semiconductors has been investigated in detail recently,  
 rather recently. Significant progress has, however, been made in this area,  
 through the use of cluster models, continued fraction, extended Huckel methods,

NUMEROUS LEAD BOOKS, BUT VERY FEW BIBLES, AND FEWER STILL THE WHOLE...



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atomic-like, high spin,  $(Hund's\ rule)$ , ground states ( $5d^4$ ) configuration and

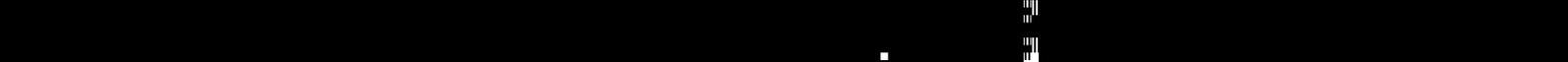
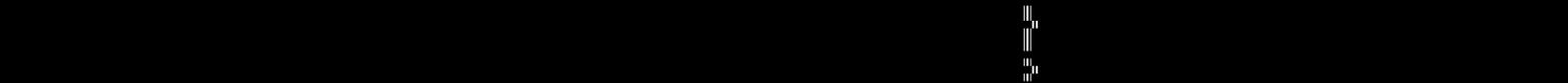
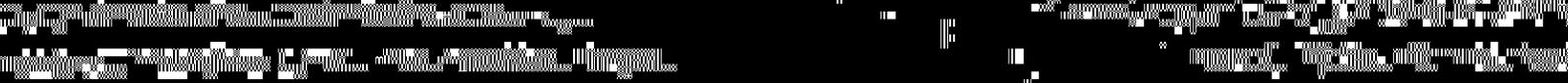
that as a large  $3d$  orbital contribution for  $t_{2g}$  may exist, exchange,  $d-d$  and  $d-p$  interactions

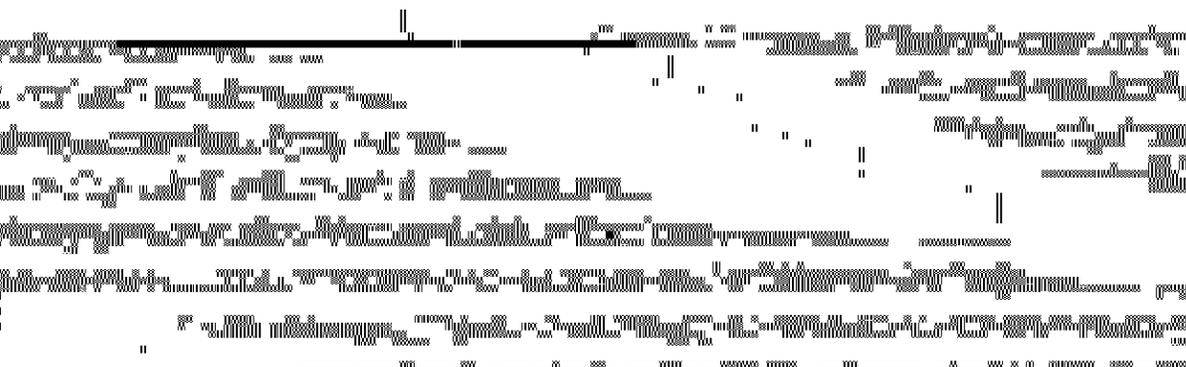
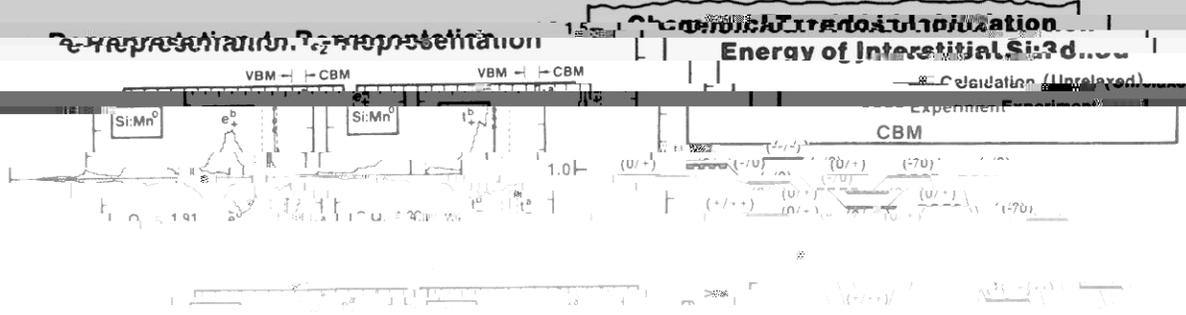
( $d-d$  and  $d-p$  interactions) and  $d-d$  and  $d-p$  interactions ( $d-d$  and  $d-p$  interactions)

interactions of  $d-d$  and  $d-p$  interactions ( $d-d$  and  $d-p$  interactions)

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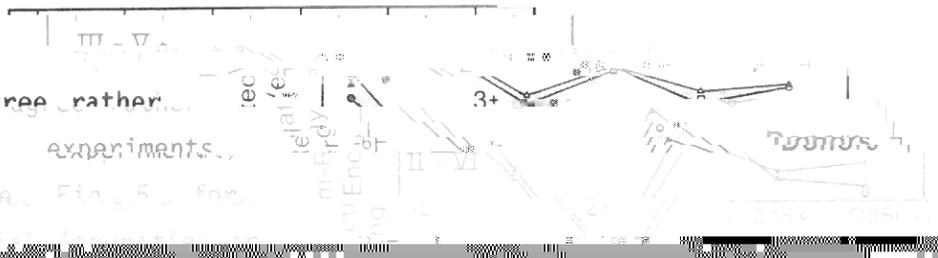
change, both  $\chi_{\text{spin}}$  and  $\chi_{\text{orb}}$  contribute in the same direction to the

this result indicates also that spin densities (as observed

change with ionic

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top energies, agree rather well, with experiments. (A good real Fin. B. fan)



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REFERENCES

(2) Britain

The first thing I noticed when I stepped out of the plane was the cold air. It was a sharp contrast to the warm, humid weather of the tropics. I had heard that the climate in Britain was temperate, but I didn't realize how different it would feel. The sky was overcast, and the ground beneath my feet was damp. I had never experienced rain so early in the morning before.

As I walked through the airport terminal, I noticed the people around me. They were dressed in coats and sweaters, some with umbrellas. I felt a bit out of place in their clothing. I had only a light jacket and a pair of shorts. I had never before seen people dressed like this. It was a new experience for me.

The first thing I did was to find a taxi. I had never before taken a taxi in a foreign country. The driver was a middle-aged man with a friendly smile. He took me to a nice hotel in the city center. The hotel was very comfortable and had a beautiful view of the city. I was lucky to find a place like this in a foreign country.

The next day I went to the British Museum. It was a very interesting place to visit. I had never before seen so many ancient artifacts. The museum was very well organized and had a lot of information. I spent the whole day there, looking at the different exhibits. It was a very educational experience for me.

One of the things I liked most about Britain was the food. I had never before eaten so many different types of food. The British people were very friendly and welcoming. They had a lot of interesting customs and traditions. I had never before seen people like this. It was a very nice surprise for me.

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