



Calculation of the valence band offsets of common anion semiconductor heterojunctions from core levels: The role of cation d orbitals

Gi <i U]K Y]UbX'5'YI 'Ni b[Yf'

7]U]cb. >ci fbU`cZJ UW i a 'GVYbW / 'HYWbc`c[ m6 '5z%&' - 'f% , +L/Xc]. '%\$"%%%\* #6) , ' +&\$

J]Yk `cb`]bY. \.hd. #Xl "Xc]"cf[ #6"%%%\* #6) , ' +&\$

J]Yk `HUV`Y`cZ7 cbYb]g. \.hd. #gV]U]cb"U]d"cf[ #6bYb]U] g#ci fbU`#] gV#] #] 3j Yf1 dXZ]j

Di V]g\YX Vmi\Y`5J G. GVYbW / 'HYWbc`c[ mcZA UYf]U`gž -bYfZUWgžUbX`DfcWgg]b[

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7 U`V`U]cb`cZX]gWYdUbWYg]b`a YUgi fYX`j U`YbW`VUbX`cZgYf]cZ\YHfc`bV]cbg`k ]h`X]ZYfYbhWfng]U`dc`Uf]h]Yg` >"5dd""D\nq"112ž%% +%&f&\$%&L/%\$"%\$\*' #6)( +\*, +\$+

Gi ]U]j]mcZ= J =gYa ]V]bXi V]c]fg`Zf`d\c]cb]WUdd]W]h]cbg. `7 ca a cb!Ub]cb]j Yf]g`V]ta a cb!W]h]cb]gi dYfU]h]W]g` &&GUW`GW`HYWbc`"5`22ž, &]6]6\$%% \$% gi d cb]j Yfg >"J UW`GW`HYWbc6

## Calculation of the valence band offsets of common-anion semiconductor

CONDUCTION AND VALENCE BAND OFFSETS IN A Heterostructure of GaAs and AlGaAs









