January 15 Possible Quiz Questions

# What symbol represents the conduction band effective density of states?



# What symbol represents the valence band effective density of states?



# What symbol is used to represent the equilibrium electron concentration?

n

# What symbol is used to represent the equilibrium hole concentration?

p

# What symbol is used to represent the intrinsic electron concentration?



# Does the value of 𝑛𝑖 2 depend upon 𝐸𝐹?

Yes

# For silicon (column IV), what column do donor atoms come from?

V

# For germanium (column IV), what column do acceptor atoms come from?

III