

SEMICONDUCTOR FUNDAMENTALS

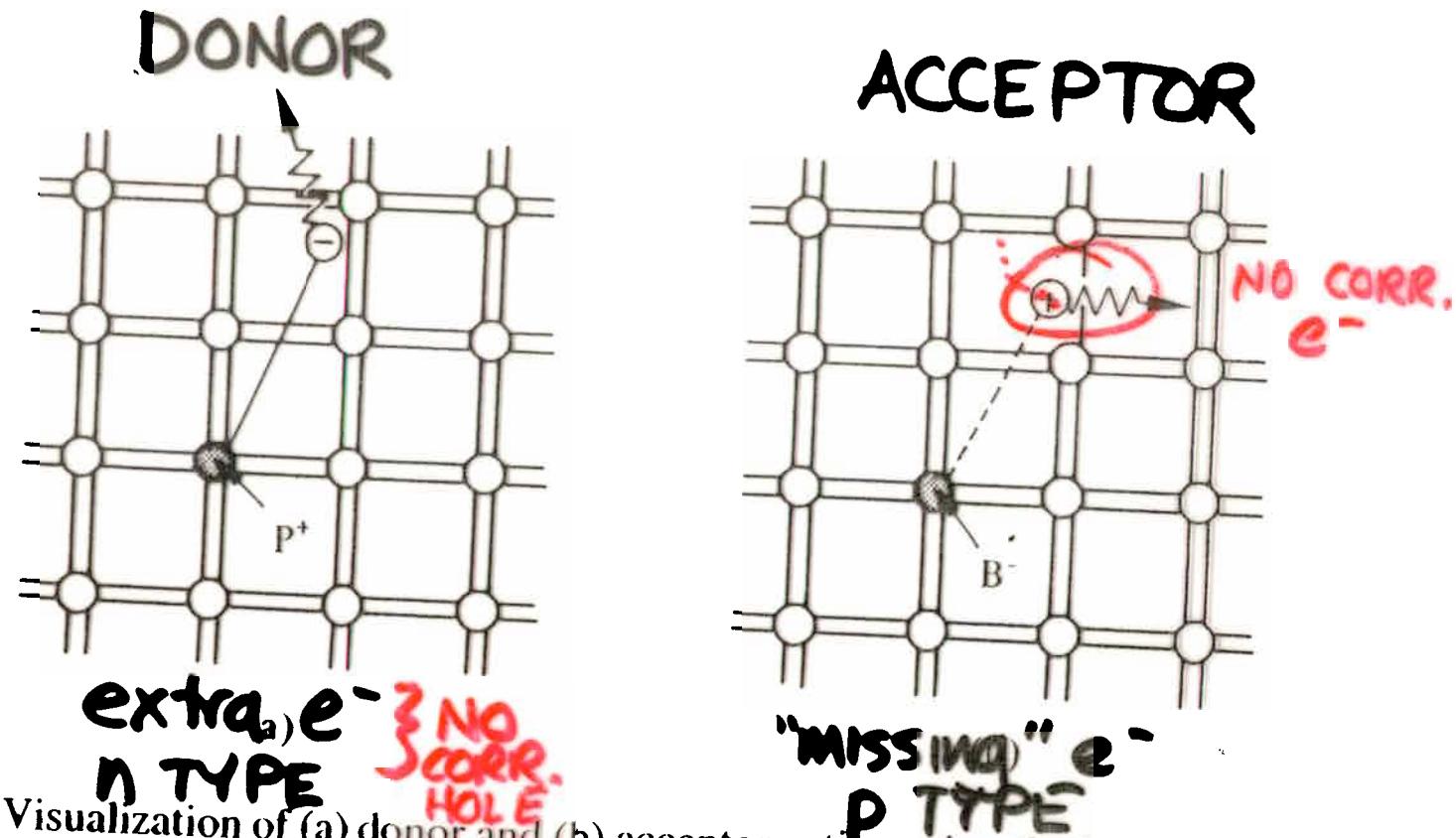


Figure 2.10 Visualization of (a) donor and (b) acceptor action using the bonding model. In (a) the Column V element P is substituted for a Si atom; in (b) the Column III element B is substituted for a Si atom.

$n > p$
e⁻ DOMINATE

$p > n$
HOLEs DOMINATE