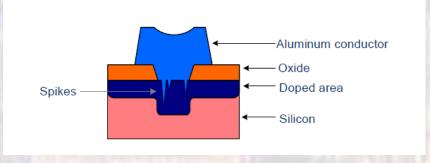
Last updated 3/7/19

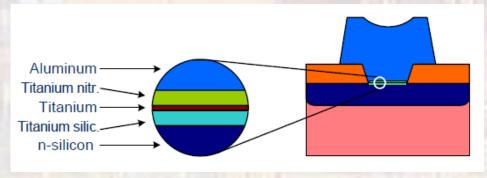
- Metallization
 - Depositing a conductor onto the wafer
 - Characteristics
 - Good conductance
 - Must form a contact (connection) to Si
 - Easy to pattern/process
 - Does not corrode
 - Typically
 - Al compounds
 - Au (gold)
 - Cu (copper)

- Metallization
 - Aluminum was the traditional choice but it has issues
 - Pure Al can diffuse through the silicon destroying junctions



Src: www.halbleiter.org

Complex layering processes required



Src: www.halbleiter.org

- Metallization
 - Copper works better for newer technologies
 - Lower resistance
 - Supports smaller geometries
 - Copper issues
 - Cannot be patterned in the traditional (easy) ways
 - Dual damascene process

- Metallization
 - Dual Damascene Process

