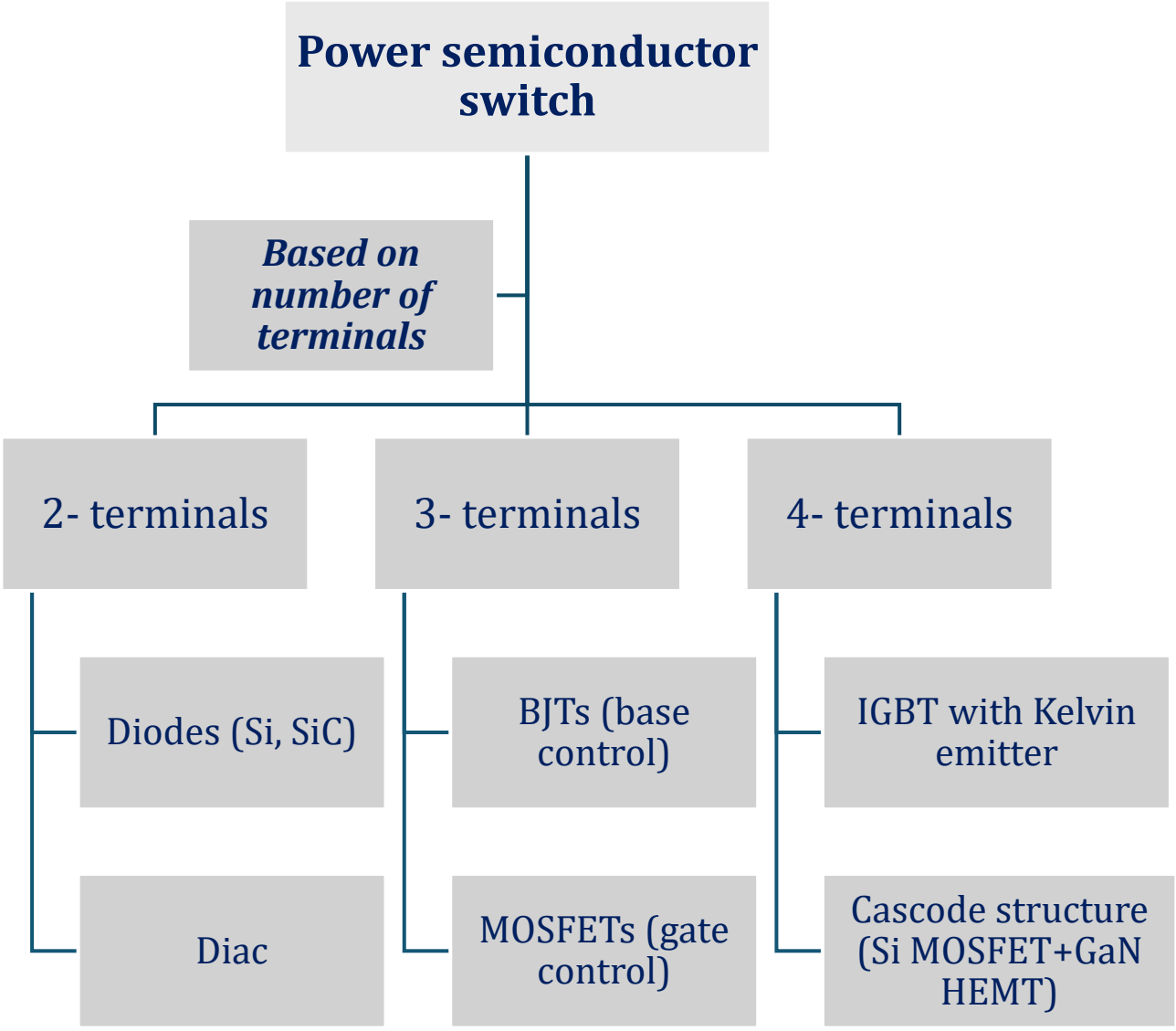
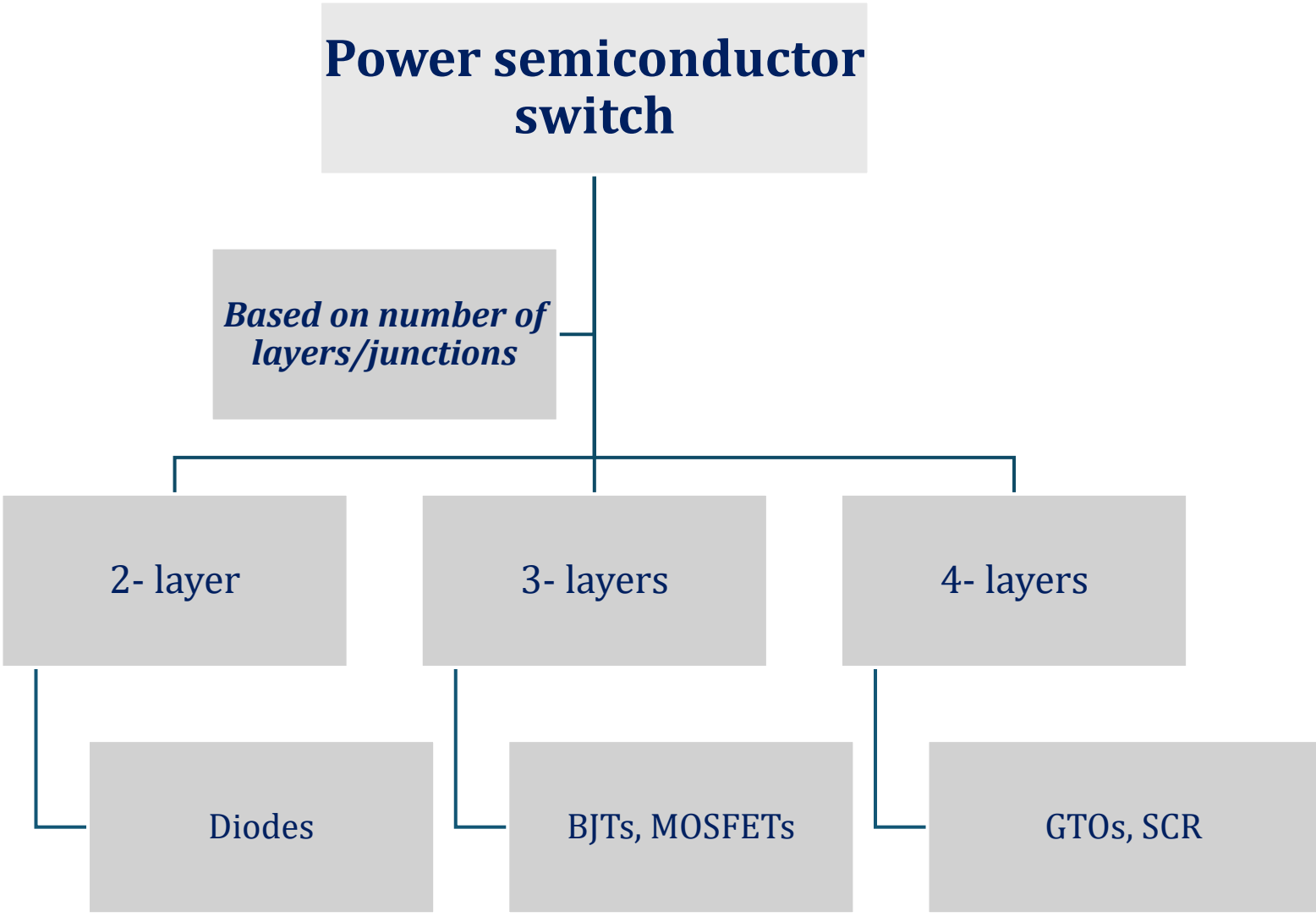
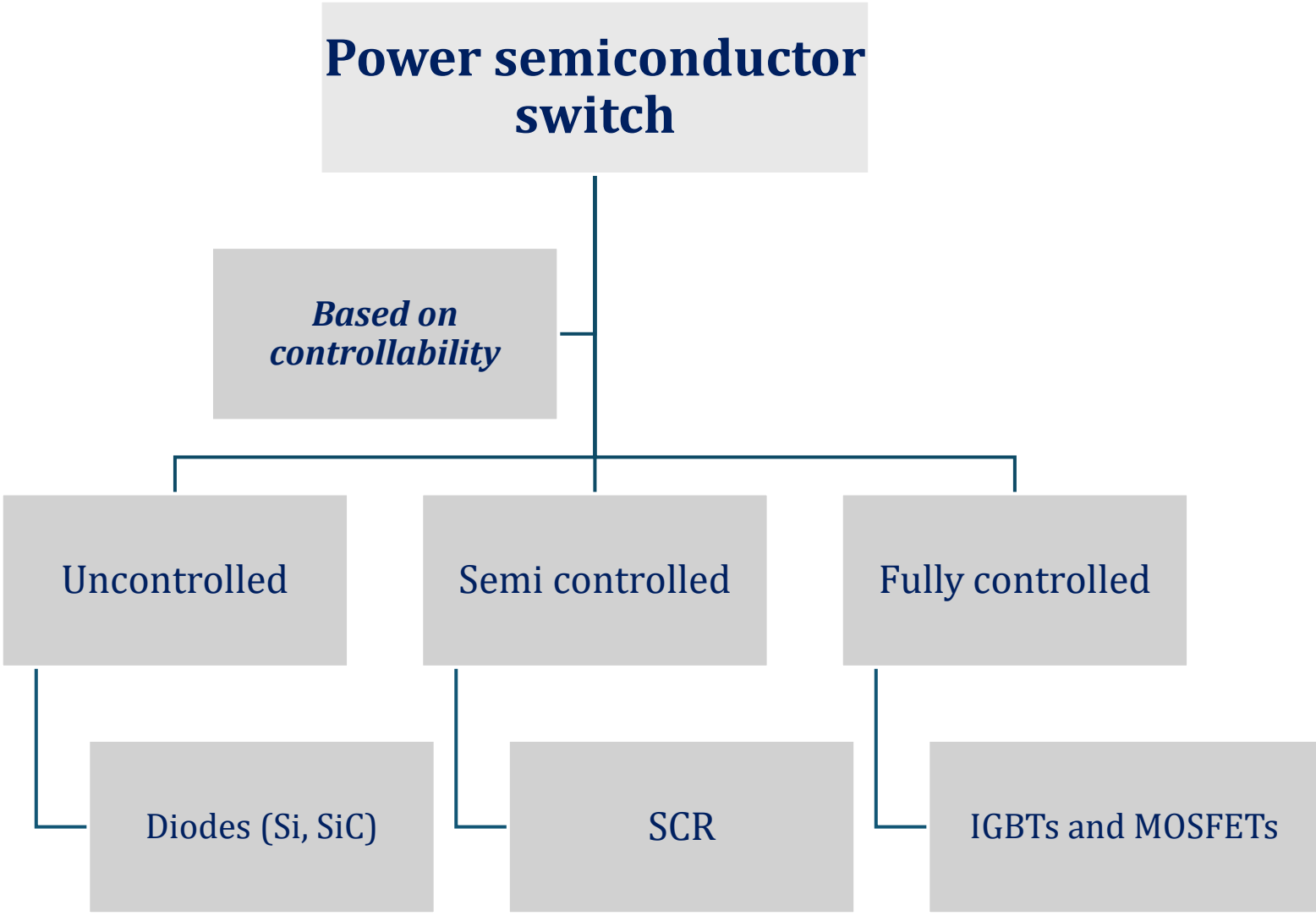
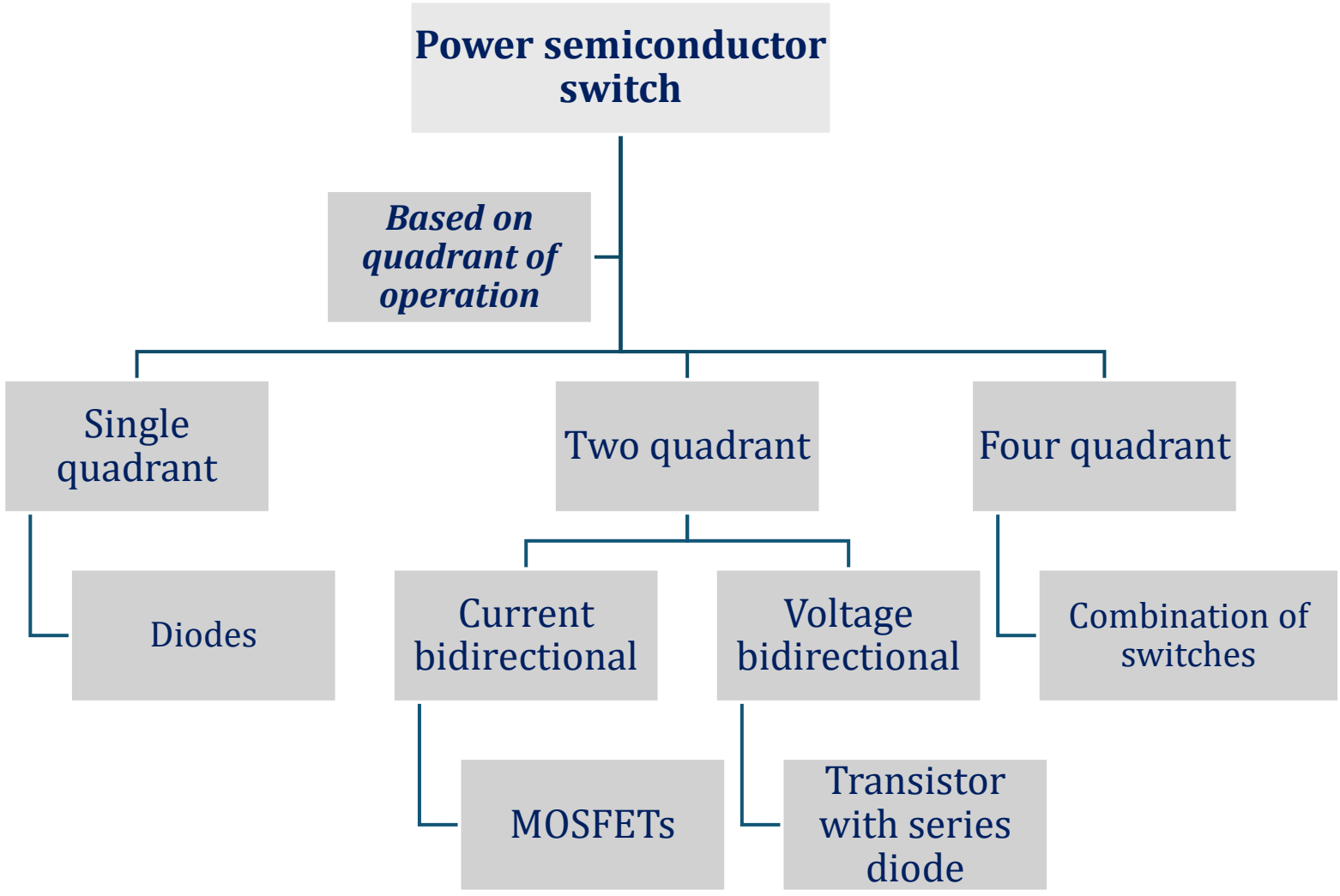

Power semiconductor switch
Based on number of terminals
2- terminals
3- terminals
4- terminals
Diodes (Si, SiC)
Diac
BJTs (base control)
MOSFETs (gate control)
IGBT with Kelvin emitter
Cascode structure (Si MOSFET+GaN HEMT)


Power semiconductor switch
Based on number of layers/junctions
2- layer
3- layers
4- layers
Diodes
BJTs, MOSFETs
GTOs, SCR


Power semiconductor switch
Based on controllability
Uncontrolled
Semi controlled
Fully controlled
Diodes (Si, SiC)
SCR
IGBTs and MOSFETs


Power semiconductor switch
Based on quadrant of operation
Single quadrant
Two quadrant
Four quadrant
Diodes
Current bidirectional
Voltage bidirectional
Combination of switches
MOSFETs
Transistor with series diode