

LIST OF ABBREVIATIONS

Abbreviation	Details
1D	One Dimensional
2D	Two Dimensional
3D	Three Dimensional
FET	Field Effect Transistor
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
IC	Integrated Circuit
SCEs	Short Channel Effects
DIBL	Drain Induced Barrier Lowering
CLM	Channel Length Modulation
HCEs	Hot Carrier Effects
SS	Subthreshold Swing
DP	Dielectric Pocket
HMG	Hetero-Material-Gate
DMG	Dual-Material Gate
TMG	Triple Material Gate
FinFET	Fin Field Effect Transistor
GAA	Gate All Around
DG	Double Gate
JLFET	Junctionless Field Effect Transistor
FET	Field Effect Transistor
MOS	Metal Oxide Semiconductor
DG-JLFET	Double Gate Junctionless Field Effect Transistor

CMOS	Complementary Metal Oxide Semiconductor
SOI	Silicon on Insulator
FD	Fully Depleted
PD	Partly Depleted
GIDL	Gate Induced Drain Lowering
DP-DG-JLFET	Dielectric Pocket Double Gate Junctionless Field Effect Transistor
BOX	Buried Oxide
TCAD	Technology Computer-Aided Design
QCEs	Quantum Confinement Effects
QW	Quantum Well
S/D	Source/Drain
UTB	Ultra Thin Body
nm	Nano Meter
V	Voltage
eV	Electron Volt
mA	Milli Ampere
nA	Nano Ampere
μm	Micro meter