

Terminology Differences between Pierret's and Hu's textbooks

	Pierret	Hu
Density of states	$g_c(E), g_v(E)$	$D_c(E), D_v(E)$
Built-in potential	V_{bi}	Φ_{bi}
Semiconductor dielectric constant	$K_s \cdot \epsilon_0$	ϵ_s
PN junction breakdown voltage	V_{BR}	V_B
BJT Emitter Efficiency	γ	γ_E
BJT Common Base Current Gain	α_{dc}	α_F
BJT Common Emitter Current Gain	β_{dc}	β_F
BJT EM model	$\alpha_F I_{F,0}$ or $\alpha_R I_{R,0}$ where α_F is equal to α_{dc}	I_s
	$\alpha_R / (1 - \alpha_R)$	β_R
MOS gate oxide capacitance	C_o or C_O/A_G	C_{ox}
MOS gate oxide thickness	x_o	T_{ox}
MOS inversion charge concentration	Q_N	Q_{inv}
MOSFET channel width	Z	W
MOSFET Source/Drain junction depth	r_j	X_j