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Velocity m/s v_{th} Thermal velocity m/s V_a
Applied voltage V V_B Base voltage V V_C
Collector voltage V V_D Drain voltage V
 V_E Emitter voltage V V_{FB} Flatband
voltage V V_G Gate voltage V V_t Thermal
voltage V V_T Threshold voltage of an
MOS structure V w Depletion layer width
m w_B Base width m w_C Collector width

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m w_E Emitter width m

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Principles of Semiconductor Devices L
Length m L_n Electron diffusion length m
 L_p Hole diffusion length m m Mass kg
 m_0 Free electron mass kg m_e^* Effective
mass of electrons kg m_h^* Effective mass

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of holes kg n Electron density m^{-3} n_i
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density per unit energy and per unit
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Sima Dimitrijevic is Professor at the School of Microelectronic Engineering at Griffith University in Australia. He is the author of Understanding Semiconductor Devices (OUP, 2000) as well as numerous other publications in the areas

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