time, power dissipation, and power density are affected in terms of the scaling factor, S. To be more specific, what would happen if the design rules change from, say, 1 µm to 1/S µm (S>1)?

SOLUTION:

	Const E field	Const.V _{D0}
W, L, t_{μ_1}	1/5	1/5
$V_{p\phi}$	1/5	1:
C	S	S
C C,WL	1/5	1/5
k_a, k_p	S	S
I_{DD}	1/5	S
ten, CV IDD	1/5	1/52
Power IDDVD	1/52	S
erdensity Power Area	1	S3

3.9 A pMOS transistor was fabricated on an n-type substrate with a bulk doping density of $N_D = 110^{16} \, \mathrm{cm}^3$, gate doping density (n-type poly) of $= N_D = 10^{20} \, \mathrm{cm}^3$, $= Q = -q = 410^{10} \, \mathrm{cm}^2$, and gate exide thickness of $t_{ax} = 1.6 \, \mathrm{mm}$. Calculate the threshold voltage at room temperature for $V_{\mathrm{SB}} = 0$. Use $_{xx} = 11.7 \, \mathrm{m}$

SOLUTION:

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Digital Integrated Circuits Thomas A. DeMassa, Zack Ciccone, 1996 Contains the most extensive coverage of digital integrated circuits available in a single source Provides complete qualitative descriptions of circuit operation followed by in depth analytical analyses and spice simulations The circuit families described in detail are transistor transistor logic TTL STTL and ASTTL emitter coupled logic ECL NMOS logic CMOS logic dynamic CMOS BiCMOS structures and various GASFET technologies In addition to detailed presentation of the basic inverter circuits for each digital logic family complete details of other logic circuits for these families are presented *Digital Integrated Circuits* DeMassa, 1996-02-01

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