I a)
$$T_{p} = \frac{V_{in} - 2V_{bon}}{R_{i} + R_{2}}$$

$$= \frac{2.5 - 1.4}{24kS^{2}} = \frac{1.1}{4kS}$$

$$T_{0} = 276\mu A$$

b)
$$I_5 = 10^{10} A$$
, $T = 300 K$, $V_{0m} = 0.7V$
 $I_D = I_5 (e^{\frac{1}{2} g} r - 1)$
where $\phi_r = \frac{1}{9} = 26 \text{ mV} @ 300 K$

$$\mathbb{F}_{0} = \frac{V_{in} - 2V_{0}}{R_{i} + R_{2}} = \mathbb{F}_{s} \left(e^{V_{0}/g_{T}} - 1 \right)$$

$$\frac{2.5 - M_{0}}{\lambda_{i} \times J^{2}} = 10^{10} \left(e^{V_{0}/g_{020}} - 1 \right)$$
iterating on this expression

c) SPICE

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d) $I_S = 10^{16} A$, T = 300K;

again use @ grow b and ; levate

to grad: $V_0 = 0.743V$ $I_0 = 253 \mu A$ $T_{S} = 10^{14} A$, T = 250K; $V_{0} = 0.728V$ $I_{D} = 261 \mu A$

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application specific integrated circuit ASIC design systems The book shows how to incorporate Simulink and Stateflow into the process of modern digital design Digital Integrated Circuits DeMassa, 1996-02-01 Integrated Circuit Design Xiaokun Yang, 2024-11-20 This textbook seeks to foster a deep understanding of the field by introducing the industry integrated circuit IC design flow and offering tape out or pseudo tape out projects for hands on practice facilitating project based learning PBL experiences Integrated Circuit Design IC Design Flow and Project Based Learning aims to equip readers for entry level roles as IC designers in the industry and as hardware design researchers in academia The book commences with an overview of the industry IC design flow with a primary focus on register transfer level RTL design the automation of simulation and verification and system on chip SoC integration To build connections between RTL design and physical hardware FPGA field programmable gate array synthesis and implementation is utilized to illustrate the hardware description and performance evaluation The second objective of this book is to provide readers with practical hands on experience through tape out or pseudo tape out experiments labs and projects These activities are centered on coding format industry design rules synthesizable Verilog designs clock domain crossing etc and commonly used bus protocols arbitration handshaking etc as well as established design methodologies for widely adopted hardware components including counters timers finite state machines FSMs I2C single dual port and ping pong buffers register files FIFOs floating point units FPUs numerical hardware Fourier transform matrix multiplication etc direct memory access DMA image processing designs neural networks and more The textbook caters to a diverse readership including junior and senior undergraduate students as well as graduate students pursuing degrees in electrical engineering computer engineering computer science and related fields The target audience is expected to have a basic understanding of Boolean Algebra and Karnaugh Maps as well as prior familiarity with digital logic components such as AND OR gates latches and flip flops The book will also be useful for entry level RTL designers and verification engineers who are embarking on their journey in application specific IC ASIC and FPGA design industry Introduction to VLSI Systems Ming-Bo Lin, 2011-11-28 With the advance of semiconductors and ubiquitous computing the use of system on a chip SoC has become an essential technique to reduce product cost With this progress and continuous reduction of feature sizes and the development of very large scale integration VLSI circuits addressing the harder problems requires fundamental understanding of circuit and layout design issues Furthermore engineers can often develop their physical intuition to estimate the behavior of circuits rapidly without relying predominantly on computer aided design CAD tools Introduction to VLSI Systems A Logic Circuit and System Perspective addresses the need for teaching such a topic in terms of a logic circuit and system design perspective To achieve the above mentioned goals this classroom tested book focuses on Implementing a digital system as a full custom integrated circuit Switch logic design and useful paradigms that may apply to various static and dynamic logic families. The fabrication and layout designs of complementary metal oxide semiconductor CMOS VLSI Important issues of modern CMOS processes including deep

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