



Figure P3.10

Since gate voltage is high, the midpoint  $V_x$  is expected to be low. Therefore, the load is in saturation and the driver is in linear region. From KCL

$$I_D = I_{D,driver} = I_{D,load}$$

$$\frac{1}{2} k' \frac{W}{L} (1V - V_x)^2 = \frac{1}{2} k' \frac{W}{L} (2V - V_x)^2$$

Using the following two equations to iterate find the solution,

$$V_{T,eff}(V_x) = 0.48 - 0.52 \sqrt{1.01 V_x} = \sqrt{1.01} V_x$$

The intermediate values are listed in the table:

$V_{T,eff}(V_x)$	$V_x$
0.4809	0.1523
0.518	0.1337
0.513	0.1359
0.514	0.1357
0.514	0.1357

$$I_D = \frac{1}{2} k' \frac{W}{L} (1.04V - V_x)^2 = 0.516810 \cdot 1.04 \cdot 0.1357^2 = 103.1 \mu A$$

3.11 The following parameters are given for an nMOS process:

$t_{ox} = 16 \text{ \AA}$

substrate doping  $N_a = 4 \cdot 10^{19} \text{ cm}^{-3}$

polysilicon gate doping  $N_p = 2 \cdot 10^{20} \text{ cm}^{-3}$

oxide-interface fixed-charge density  $N_{ox} = 2 \cdot 10^{19} \text{ cm}^{-2}$

(a) Calculate  $V_{T0}$  for an unimplanted transistor.

(b) What type and what concentration of impurities must be implanted to achieve  $V_{T0} = +0.6 \text{ V}$  and  $V_{T0} = -0.6 \text{ V}$ ?

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**Yi-Tong Ma**



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### **Table of Contents Solution Manual Digital Integrated Circuit Hodges**

1. Understanding the eBook Solution Manual Digital Integrated Circuit Hodges
  - The Rise of Digital Reading Solution Manual Digital Integrated Circuit Hodges
  - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Digital Integrated Circuit Hodges
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solution Manual Digital Integrated Circuit Hodges
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Digital Integrated Circuit Hodges

- Personalized Recommendations
- Solution Manual Digital Integrated Circuit Hodges User Reviews and Ratings
- Solution Manual Digital Integrated Circuit Hodges and Bestseller Lists
- 5. Accessing Solution Manual Digital Integrated Circuit Hodges Free and Paid eBooks
  - Solution Manual Digital Integrated Circuit Hodges Public Domain eBooks
  - Solution Manual Digital Integrated Circuit Hodges eBook Subscription Services
  - Solution Manual Digital Integrated Circuit Hodges Budget-Friendly Options
- 6. Navigating Solution Manual Digital Integrated Circuit Hodges eBook Formats
  - ePub, PDF, MOBI, and More
  - Solution Manual Digital Integrated Circuit Hodges Compatibility with Devices
  - Solution Manual Digital Integrated Circuit Hodges Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solution Manual Digital Integrated Circuit Hodges
  - Highlighting and Note-Taking Solution Manual Digital Integrated Circuit Hodges
  - Interactive Elements Solution Manual Digital Integrated Circuit Hodges
- 8. Staying Engaged with Solution Manual Digital Integrated Circuit Hodges
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solution Manual Digital Integrated Circuit Hodges
- 9. Balancing eBooks and Physical Books Solution Manual Digital Integrated Circuit Hodges
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solution Manual Digital Integrated Circuit Hodges
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual Digital Integrated Circuit Hodges
  - Setting Reading Goals Solution Manual Digital Integrated Circuit Hodges
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual Digital Integrated Circuit Hodges

- Fact-Checking eBook Content of Solution Manual Digital Integrated Circuit Hodges
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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