

Chapter 2

$$19. \quad \text{PTV} = V_p = \frac{\pi V_{\text{sat(max)}}}{2} = \frac{\pi(50 \text{ V})}{2} = 78.5 \text{ V}$$

$$20. \quad \text{PTV} = V_{\text{sat(max)}} = 1.414(20 \text{ V}) = 28.3 \text{ V}$$

21. See Figure 2-4.



Figure 2-4

Section 2-6 Power Supply Filters and Regulators

$$22. \quad V_{\text{ripple}} = 0.5 \text{ V}$$

$$r = \frac{V_{\text{ripple}}}{V_{\text{DC}}} = \frac{0.5 \text{ V}}{7.5 \text{ V}} = 0.00667$$

$$23. \quad V_{\text{ripple}} = \frac{V_{\text{sat(max)}}}{fR_L C} = \frac{30 \text{ V}}{(120 \text{ Hz})(600 \Omega)(50 \mu\text{F})} = 8.33 \text{ V pp}$$

$$V_{\text{DC}} = \left(1 - \frac{1}{2fR_L C}\right)V_{\text{sat(max)}} = \left(1 - \frac{1}{(240 \text{ Hz})(600 \Omega)(50 \mu\text{F})}\right)30 \text{ V} = 25.8 \text{ V}$$

$$24. \quad \%r = \left(\frac{V_{\text{ripple}}}{V_{\text{DC}}}\right)100 = \left(\frac{8.33 \text{ V}}{25.8 \text{ V}}\right)100 = 32.3\%$$

$$25. \quad V_{\text{ripple}} = (0.01)(18 \text{ V}) = 180 \text{ mV}$$

$$V_{\text{ripple}} = \left(\frac{1}{fR_L C}\right)V_{\text{sat(max)}}$$

$$C = \left(\frac{1}{fR_L V_r}\right)V_{\text{sat(max)}} = \left(\frac{1}{(120 \text{ Hz})(1.5 \text{ k}\Omega)(180 \text{ mV})}\right)18 \text{ V} = 556 \mu\text{F}$$

$$26. \quad V_{\text{ripple}} = \frac{V_{\text{sat(max)}}}{fR_L C} = \frac{80 \text{ V}}{(120 \text{ Hz})(10 \text{ k}\Omega)(10 \mu\text{F})} = 6.67 \text{ V}$$

$$V_{\text{DC}} = \left(1 - \frac{1}{2fR_L C}\right)V_{\text{sat(max)}} = \left(1 - \frac{1}{(240 \text{ Hz})(10 \text{ k}\Omega)(10 \mu\text{F})}\right)80 \text{ V} = 76.7 \text{ V}$$

$$r = \frac{V_{\text{ripple}}}{V_{\text{DC}}} = \frac{6.67 \text{ V}}{76.7 \text{ V}} = 0.0087$$

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David Buchla



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Table of Contents Floyd Laboratory Exercises For Electronic 8 Solution

1. Understanding the eBook Floyd Laboratory Exercises For Electronic 8 Solution
 - The Rise of Digital Reading Floyd Laboratory Exercises For Electronic 8 Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Floyd Laboratory Exercises For Electronic 8 Solution
 - 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 Floyd Laboratory Exercises For Electronic 8 Solution
 - User-Friendly Interface

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

12. Sourcing Reliable Information of Floyd Laboratory Exercises For Electronic 8 Solution
 - Fact-Checking eBook Content of Floyd Laboratory Exercises For Electronic 8 Solution
 - 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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