

tor and resistor connected across the tubes, or "cushion circuit" as this combination is called. This group includes circuits such as rectifiers supplying motors or capacitive loads running in the discontinuous region, half wave circuits, relaxation inverters, and series transformers.

There is a third group in which, on every cycle, each tube conducts full current up to the instant its successor is fired and shortly thereafter high initial inverse voltage is applied to the anode. This may be damaging and requires study. The group includes full wave or poly-phase rectifier or inverter circuits operating in the continuous current region with firing delayed by grid action, and half-wave tubes used as back rectifiers with firing angle of the controlled tubes retarded.

To analyze the process that occurs during the few microseconds necessary to commute, an example may be taken. A full wave controlled rectifier with firing delayed by grid action and load inductance so great that the ripple current is small, is a typical case. The inherent leakage inductance of each secondary winding of the transformer is indicated at  $L_1$ ,  $L_2$ . Cushion resistors and capacitors  $C_1$ ,  $C_2$  to limit voltage recovery are shown.



Figure 23

In this circuit the load inductance forces current to flow through the conducting tube (assumed #1 above) beyond the end of each positive half cycle by generating a voltage to more than oppose the voltage of the transformer secondary as it goes negative. This conduction continues until the grid circuit allows the next or "entering tube" (#2 above) to fire.

The events of present interest follow the firing of this entering tube: they are depicted in the following oscillograms. First, since both cathodes are tied together and both tubes are conducting and have substantially equal arc drop, their anodes are at the same potential. Hence the transformer voltage is effectively applied to the leakage inductance, and the net transformer output voltage is zero. The transformer voltages cause a rise of current in  $L_2$  and a decay of current in  $L_1$  at an initial rate of  $ec / (L_1 + L_2)$  where  $ec$  is the instantaneous commutating (anode-to-anode) voltage. The load inductance holds the sum of these two currents constant. These conditions hold for a period called the current commutation

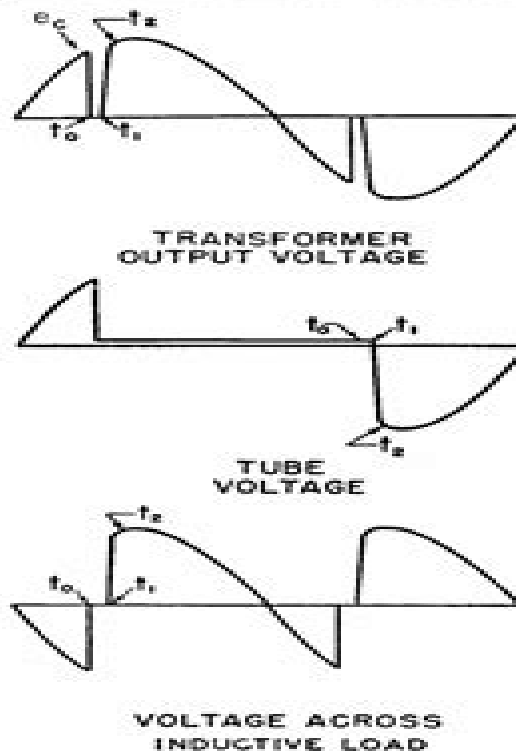


Figure 24

# El Gaseous Discharge Rectifier Control

**JR Anderson**



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## **Table of Contents El Gaseous Discharge Rectifier Control**

1. Understanding the eBook El Gaseous Discharge Rectifier Control
  - The Rise of Digital Reading El Gaseous Discharge Rectifier Control
  - Advantages of eBooks Over Traditional Books
2. Identifying El Gaseous Discharge Rectifier Control
  - 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 El Gaseous Discharge Rectifier Control
  - User-Friendly Interface
4. Exploring eBook Recommendations from El Gaseous Discharge Rectifier Control
  - Personalized Recommendations
  - El Gaseous Discharge Rectifier Control User Reviews and Ratings
  - El Gaseous Discharge Rectifier Control and Bestseller Lists
5. Accessing El Gaseous Discharge Rectifier Control Free and Paid eBooks
  - El Gaseous Discharge Rectifier Control Public Domain eBooks

- El Gaseous Discharge Rectifier Control eBook Subscription Services
- El Gaseous Discharge Rectifier Control Budget-Friendly Options
- 6. Navigating El Gaseous Discharge Rectifier Control eBook Formats
  - ePub, PDF, MOBI, and More
  - El Gaseous Discharge Rectifier Control Compatibility with Devices
  - El Gaseous Discharge Rectifier Control Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of El Gaseous Discharge Rectifier Control
  - Highlighting and Note-Taking El Gaseous Discharge Rectifier Control
  - Interactive Elements El Gaseous Discharge Rectifier Control
- 8. Staying Engaged with El Gaseous Discharge Rectifier Control
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers El Gaseous Discharge Rectifier Control
- 9. Balancing eBooks and Physical Books El Gaseous Discharge Rectifier Control
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection El Gaseous Discharge Rectifier Control
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine El Gaseous Discharge Rectifier Control
  - Setting Reading Goals El Gaseous Discharge Rectifier Control
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of El Gaseous Discharge Rectifier Control
  - Fact-Checking eBook Content of El Gaseous Discharge Rectifier Control
  - 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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