

# 1 Weak superconductivity

Electric current is passed through a junction formed by two metals: lead (say, located at  $x < 0$ ) and aluminum (at  $x > 0$ ). Neglect thickness of the contact.

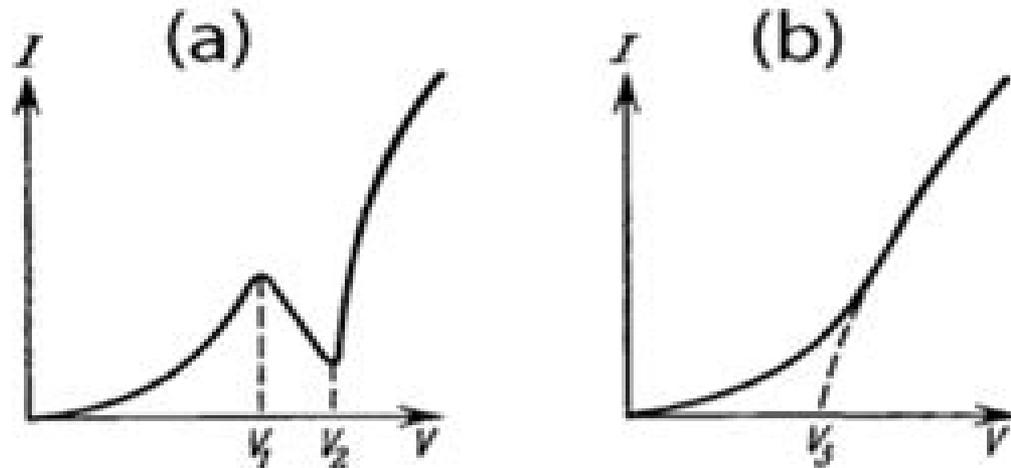


Figure 1: .

- Explain the following  $I(V)$  characteristic measured at  $T = 0.3$  K (Fig1(a)).
- Draw diagrams needed for the explanation.
- Calculate the energy gaps for Pb and Al, respectively if  $V_1 = 11.8 \times 10^{-4}$  V and  $V_2 = 15.2 \times 10^{-4}$  V. (Assume that the gaps amplitudes do not change much from 0 to  $0.5T_c$ .)
- At what temperature can you expect a curve shown in Fig.1(b)?

# Weak Superconductivity

**Lei Huang**



**Weak Superconductivity:**

## Reviewing **Weak Superconductivity**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Weak Superconductivity**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents Weak Superconductivity**

1. Understanding the eBook Weak Superconductivity
  - The Rise of Digital Reading Weak Superconductivity
  - Advantages of eBooks Over Traditional Books
2. Identifying Weak Superconductivity
  - 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 eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from Weak Superconductivity
  - Personalized Recommendations
  - eBook Platform User Reviews and Ratings
  - eBook Platform and Bestseller Lists

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