

(b) Energy to move a charge q from x_1 to x_2 is change in potential energy $\Delta(q\phi) = q(\phi_2 - \phi_1)$. Let $\phi_1 = 0$ at $x = \pm d$ and $\phi_2 = (1/2\epsilon_0)nqd^2$ at $x = 0$. Then

$$\mathcal{E} = \frac{1}{2\epsilon_0}nq^2d^2$$

Let $d = \lambda_D$; then

$$\mathcal{E} = \frac{1}{2\epsilon_0}nq^2 \frac{KT\epsilon_0}{nq^2} = \frac{1}{2}KT = E_{AV}$$

for a one-dimensional Maxwellian distribution. Hence, if $d > \lambda_D$, $\mathcal{E} > E_{AV}$. If the velocities are distributed in three dimensions, we have $E_{AV} = \frac{3}{2}KT$ and $\mathcal{E} > \frac{2}{3}E_{AV}$. The factor 3 is not important here. The point is that a thermal particle would not have enough energy to go very far in a plasma ($d > \lambda_D$) if the charge of one species is not neutralized by another species.

1-7. (a) $\lambda_D = 7400(2/10^{16})^{1/2} = 10^{-4}$ m, $N_D = 4.8 \times 10^4$.

(b) $\lambda_D = 7400(0.1/10^{13})^{1/2} = 2.3 \times 10^{-3}$ m, $N_D = 5.4 \times 10^4$.

(c) $\lambda_D = 7400(800/10^{13})^{1/2} = 6.6 \times 10^{-3}$ m, $N_D = 1.2 \times 10^5$.

2-1. $E = \frac{1}{2}mv_{\perp}^2 \therefore v_{\perp} = (2E/m)^{1/2}$, $r_L = mv_{\perp}/eB$.

(a)

$$v_{\perp} = \left[\frac{(2)(10^4)(1.6 \times 10^{-19})}{9.11 \times 10^{-31}} \right]^{1/2} = 5.93 \times 10^7 \text{ m/sec}$$

$$r_L = \frac{(9.11 \times 10^{-31})(5.93 \times 10^7)}{(1.6 \times 10^{-19})(0.5 \times 10^{-4})} = 6.75 \text{ m}$$

(b)

$$v_{\perp} = (300)(1000) = 3 \times 10^5 \text{ m/sec}$$

$$r_L = \frac{(1.67 \times 10^{-27})(3 \times 10^5)}{(1.6 \times 10^{-19})(5 \times 10^{-5})} = 6.26 \times 10^5 \text{ m} = 626 \text{ km}$$

(c)

$$v_{\perp} = \left[\frac{(2)(10^3)(1.6 \times 10^{-19})}{(4)(1.67 \times 10^{-27})} \right]^{1/2} = 2.19 \times 10^5 \text{ m/sec}$$

$$r_L = \frac{(4)(1.67 \times 10^{-27})(2.19 \times 10^5)}{(1.6 \times 10^{-19})(5.00 \times 10^{-5})} = 0.183 \text{ m}$$

(d)

$$r_L = \frac{2ME}{qB} = \frac{[(2)(4)(1.67 \times 10^{-27})(3.5 \times 10^5)(1.6 \times 10^{-19})]^{1/2}}{(2)(1.6 \times 10^{-19})(8)}$$

$$= 5.58 \times 10^{-3} \text{ m}$$

Plasma Physics And Controlled Fusion Solution Manual

Samsul Ariffin Abdul Karim, Afza Shafie



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Table of Contents Plasma Physics And Controlled Fusion Solution Manual

1. Understanding the eBook Plasma Physics And Controlled Fusion Solution Manual
 - The Rise of Digital Reading Plasma Physics And Controlled Fusion Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Plasma Physics And Controlled Fusion Solution Manual
 - 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 Plasma Physics And Controlled Fusion Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Plasma Physics And Controlled Fusion Solution Manual
 - Personalized Recommendations
 - Plasma Physics And Controlled Fusion Solution Manual User Reviews and Ratings
 - Plasma Physics And Controlled Fusion Solution Manual and Bestseller Lists
5. Accessing Plasma Physics And Controlled Fusion Solution Manual Free and Paid eBooks

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