

# Chapter 1

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## Heterostructure and Quantum Well Physics

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I.	Introduction	1
A.	Atomic Structure of Heterojunctions	2
II.	Electronic Structure of Semiconductors	3
A.	Energy Bands	3
B.	Effective Mass Theory	5
III.	Heterojunction Band Alignment	6
A.	Theories of the Band Alignment	8
B.	Measurement of the Band Alignment	10
C.	Physical Interpretation of the Band Alignment	11
IV.	Quantum Wells	12
V.	Quasi-Equilibrium Properties of Heterostructures	13
A.	Carrier Distribution and Screening	13
VI.	Transport Properties	18
A.	Drift-Diffusion Equation	18
B.	Abrupt Structures and Thermionic Emission	21
C.	Quantum Mechanical Reflection	22
VII.	Summary	22
	References	22

### I. INTRODUCTION

Heterostructures are the building blocks of many of the most advanced semiconductor devices presently being developed and produced. They are essential elements of the highest-performance optical sources and detectors [1,2] and are being employed increasingly in high-speed and

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## **Table of Contents Heterostructure And Quantum Well Physics William R**

1. Understanding the eBook Heterostructure And Quantum Well Physics William R
  - The Rise of Digital Reading Heterostructure And Quantum Well Physics William R
  - Advantages of eBooks Over Traditional Books
2. Identifying Heterostructure And Quantum Well Physics William R
  - 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 Heterostructure And Quantum Well Physics William R
  - User-Friendly Interface
4. Exploring eBook Recommendations from Heterostructure And Quantum Well Physics William R
  - Personalized Recommendations
  - Heterostructure And Quantum Well Physics William R User Reviews and Ratings

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