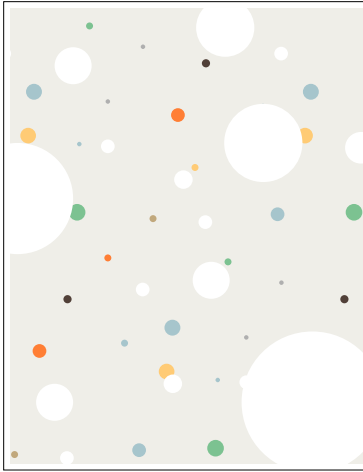

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PHYSICAL REVIEW B **VOLUME 50, NUMBER 8** **15 DECEMBER 1994**


Time-dependent transport in interacting and endorectric resonant-coupling systems

Hideo Hasegawa, Shinya Yamamoto, and Shinya Yamamoto, Department of Physics, Kyoto University, Kyoto 606-8502, Japan
 Hideo Hasegawa, Shinya Yamamoto, and Shinya Yamamoto, Department of Physics, Kyoto University, Kyoto 606-8502, Japan

1. INTRODUCTION

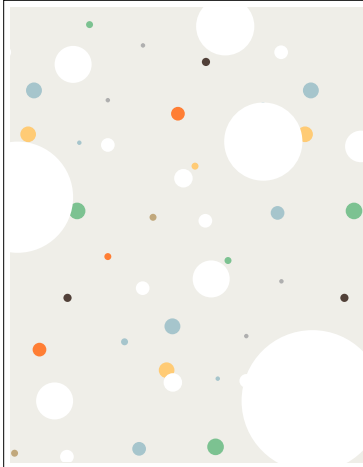
We consider a transport system coupled to two leads under an influence of external magnetic field. The time dependence of current and conductance is studied in the case of a resonant-coupling system between the leads and the system. The time dependence of the current is studied in the case of a resonant-coupling system between the leads and the system. The time dependence of the current is studied in the case of a resonant-coupling system between the leads and the system.

PACS: 73.40.Lz, 73.20.Dx, 73.40.Gk, 73.40.Nd, 73.40.Rw, 73.40.Uh, 73.40.Vj, 73.40.Wg, 73.40.Xj, 73.40.Yk, 73.40.Zd, 73.40.Ae, 73.40.Bd, 73.40.Ce, 73.40.Dd, 73.40.Ee, 73.40.Ff, 73.40.Gg, 73.40.Hh, 73.40.Ii, 73.40.Jj, 73.40.Kk, 73.40.Ll, 73.40.Mm, 73.40.Nn, 73.40.Oo, 73.40.Pp, 73.40.Qq, 73.40.Rr, 73.40.Ss, 73.40.Tt, 73.40.Uu, 73.40.Vv, 73.40.Ww, 73.40.Xx, 73.40.Yy, 73.40.Zz


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Chapter 1. Introduction & Fundamental Concepts Page 1

Advanced Quantum Mechanics: Lecture 1

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Department of physics
September 14, 2023

Overview

- Introduction
- Fundamental Concepts
 - Wave, Ray and Quantum
 - Born rule of state representation
 - Measurement, observables, and the uncertainty relation
 - Unitarity relation
 - Change of State
 - Transition, Measurement, and Transition
 - The density matrix

Recommend Readings

Text Book
 1. J. J. Sakurai, *Modern Quantum Mechanics*, Cambridge University Press (2nd edition, 2005)
Additional reading material
 1. P. A. M. Dirac, *Principles of Quantum Mechanics*
 2. Gong Ding Li and Gu-Qing Chen, *Advanced Quantum Mechanics*, China University Press, (in Chinese)
 3. E. Shankar, *Principles of Quantum Mechanics*, Plenum Press
 4. L. Deng and Min Gu, *Exotic Problems in Quantum Mechanics*

Chapter 2. SPD Basic: Transport Page 2

2023

1. 半导体物理基础 输运

丁如晋 理学教授


第一章 半导体物理基础

思考：什么是半导体材料？

半导体材料分类（续）——导电材料



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