

# Griffiths Introduction To Quantum Mechanics 2nd Edition

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## Griffiths Introduction To Quantum Mechanics

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Introduction to Quantum Mechanics, 3rd edition David Gri ths and Darrell Schroeter Cambridge University Press Errata (cumulative): January 15, 2019 Page xii: the stars here do not match the asterisks used in the text (see, for example, Problem 13) Page 33, Figure 22: ! (3 times)

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### **Chapter 2 Introduction to Quantum Mechanics**

CHAPTER 2 INTRODUCTION TO QUANTUM MECHANICS 24 An important example of operators on  $C^2$  are the Pauli matrices,  $\sigma_0 \equiv I \equiv \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ ,  $\sigma_1 \equiv X \equiv \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$ ,  $\sigma_2 \equiv Y \equiv \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}$ ,  $\sigma_3 \equiv Z \equiv \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$ , (219) The Pauli matrices are related to each other through commutation rela-

### **Contents**

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Introduction to quantum mechanics David Morin, morin@physics.harvard.edu This chapter gives a brief introduction to quantum mechanics Quantum mechanics can be thought of roughly as the study of physics on very small length scales, although there are also certain macroscopic systems it directly applies to The descriptor "quantum" arises

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quantum mechanics it is reflected in the Pauli exclusion principle) It enormously simplifies the task of elementary particle physics: we don't have to worry about big electrons and little ones, or new electrons and old ones-an electron is an electron It didn't have to be so easy

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quantum mechanics The purpose of this book is to teach you how to do quantum mechanics Apart from some essential background in Chapter 1, the deeper quasi-philosophical questions are saved for the end I do not believe one can intelligently discuss what quantum mechanics means until one has a firm sense of what quantum mechanics does

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of his research is in electrodynamics and quantum mechanics He is the author of over fifty articles and four books: Introduction to Electrodynamics (4th edition, Cambridge University Press, 2013), Introduction to Elementary Particles (2nd edition, Wiley-VCH, 2008), Introduction to Quantum Mechanics (2nd edition, Cambridge, 2005), and

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References: Griffiths, David J (2005), Introduction to Quantum Mechan-ics, 2nd Edition; Pearson Education - Problem 327 Suppose we have a two-state system, and there are two observables, A and B, that can be measured Observable Ahas two eigenstates (eigenvec-tors, if you like) called 1 and 2 with eigenvalues (possible values that can be

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