

## CHAPTER 2

# Introduction to Quantum Mechanics

- The behavior and characteristics of electrons in a semiconductor can be described by the formulation of **quantum mechanics** called **wave mechanics**. The essential elements of this wave mechanics, using **Schrodinger's wave equation**.
- Discuss a few basic principles of quantum mechanics that apply to semiconductor device physics.
- State Schrodinger's wave equation and discuss the physical meaning of the wave function.
- Consider the application of Schrodinger's wave equation to various potential functions to determine some of the fundamental properties of electron behavior in a crystal.
- Apply Schrodinger's wave equation to the one-electron atom. The result of this analysis yields the four basic quantum numbers, the concept of discrete energy bands, and the initial buildup of the periodic table.

# Quantum Mechanics An Introduction

**Daniel F McAuley**



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