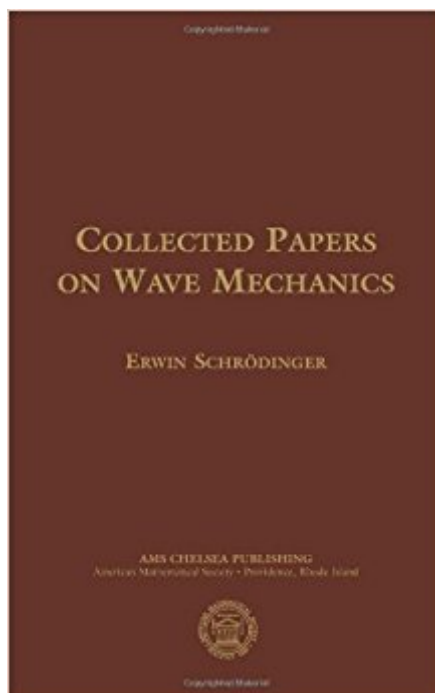


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Collected Papers On Wave Mechanics (Ams Chelsea Publishing)



Synopsis

The famous equation that bears Erwin Schrodinger's name encapsulates his profound contributions to quantum mechanics using wave mechanics. This third, augmented edition of his papers on the topic contains the six original, famous papers in which Schrodinger created and developed the subject of wave mechanics as published in the original edition.

Book Information

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Customer Reviews

Text: English, German (translation) --This text refers to an out of print or unavailable edition of this title.

The first paper here has a very interesting discussion of how to visualize the microworld with wave-envelopes, beats. The mathematics was way beyond my undergraduate capabilities, so in a sense I am not qualified to comment on most of this great work. This is not a good place for the student to learn wave mechanics, but there may not exist any good place. Wave mechanics is about a physical matter-wave. Quantum mechanics imposes a probability interpretation upon the wave, invoked by Max Born. Obviously this book is important for historical purposes. The last paper is on the Compton effect in terms of waves instead of particles. Compton somehow made sense of this paper and included a wave derivation of the Compton effect in the book by Compton and Allison: X-rays in Theory and Experiment. This book by Schrodinger was of great importance for the following: Particle effects are due to envelope functions, his wave equation, equivalence of his wave method to Heisenberg's matrix method, and an attempt to understand the Compton effect with

waves. The serious student of physics will have this book in his/her library. His discussion of beats inspired me to develop the matter-wave theory, and also inspired me, unquantum, to develop original experiments that defy the probability interpretation. Schrodinger was right.

Not an easy read, but it's a classic of quantum mechanics.

The original thoughts and results of one of the founding fathers of modern physics, written clearly and in a great style.

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