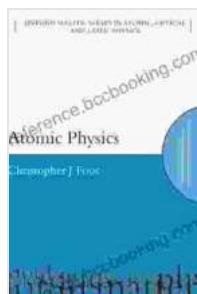


# Atomic Physics: Oxford Master Series in Physics

Embark on an extraordinary journey into the realm of atomic physics with our illuminating book, 'Atomic Physics: Oxford Master Series in Physics'. This comprehensive guide unravels the mysteries of the atom, taking you from the foundational concepts of atomic structure to the frontiers of cutting-edge research.



## Atomic Physics (Oxford Master Series in Physics Book)

7) by Ally Carter

4.3 out of 5

Language : English

File size : 21122 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 717 pages

Lending : Enabled

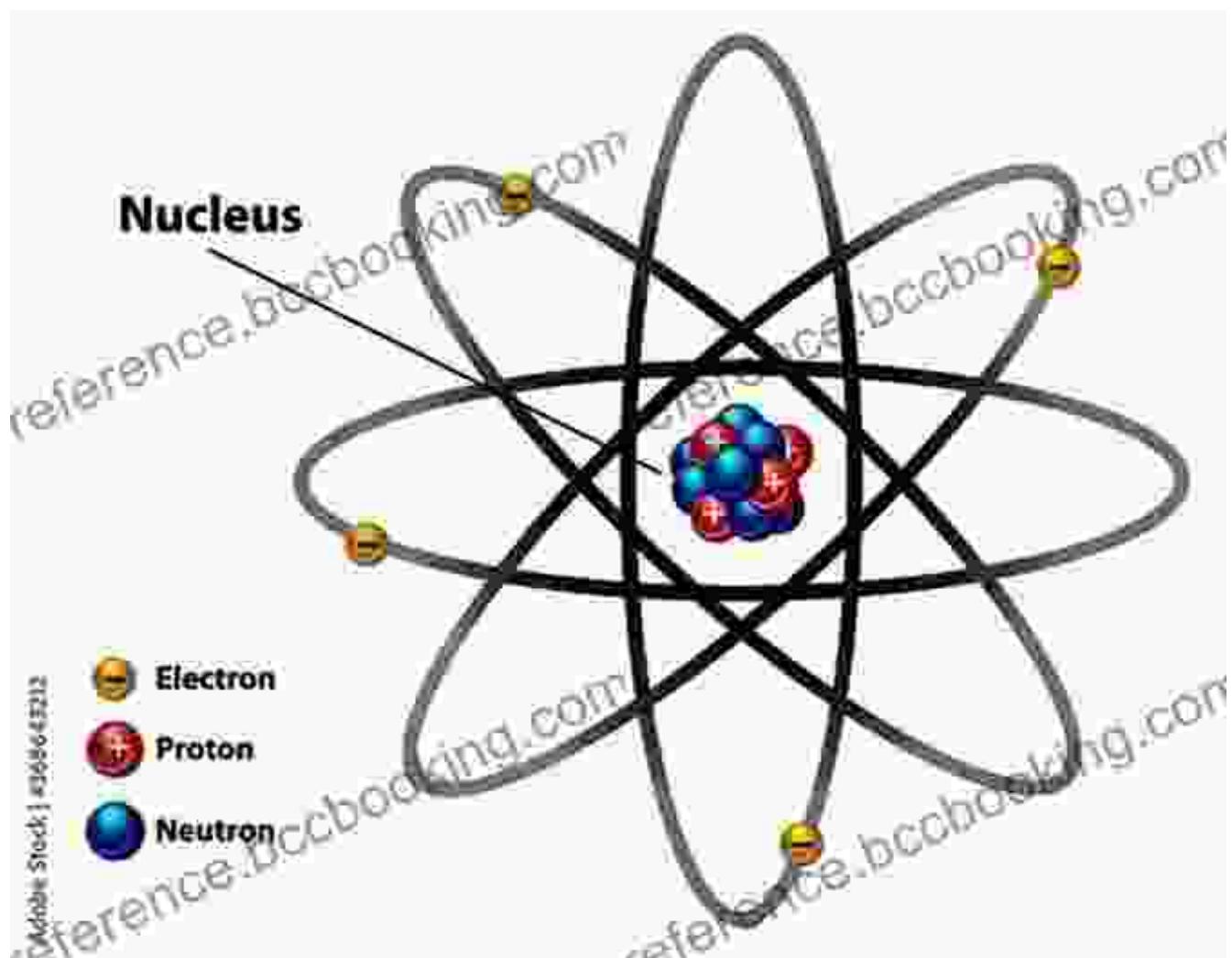
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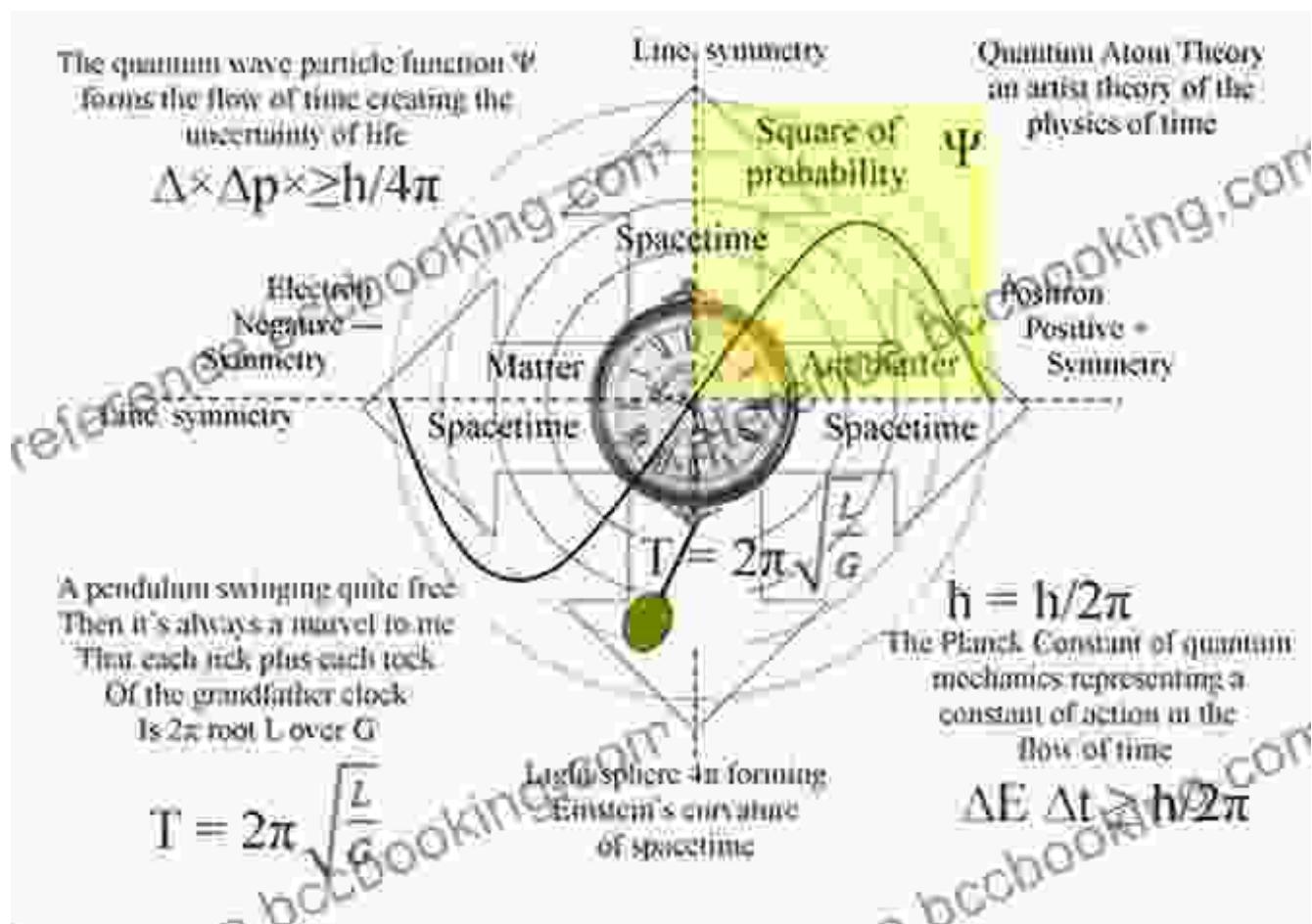
## Delve into the Fundamental Building Blocks of Matter

The book meticulously introduces you to the fundamental principles governing the behavior of atoms. Explore the groundbreaking discoveries that shaped our understanding of atomic structure, including the groundbreaking work of Niels Bohr and the development of quantum mechanics.



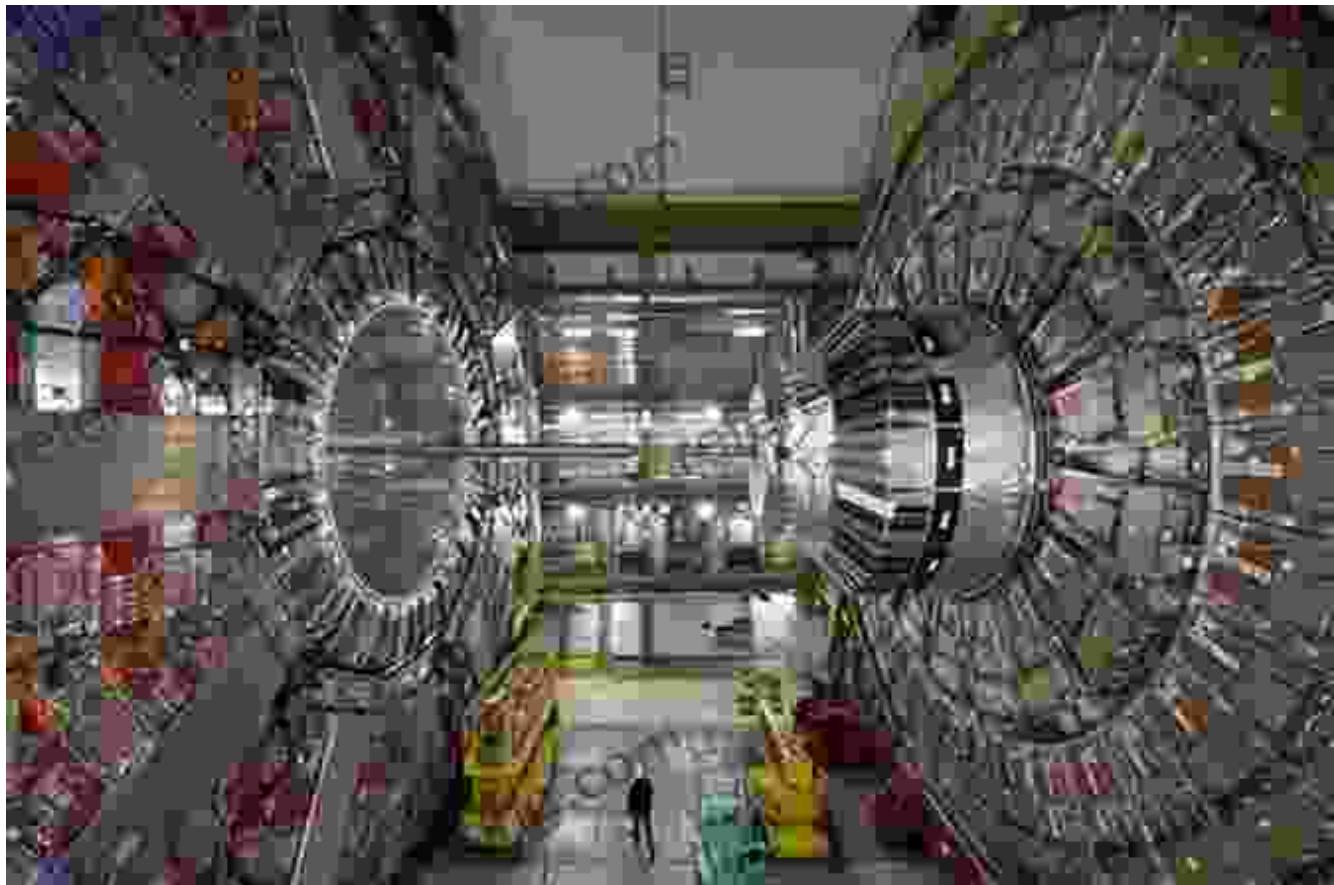
## Master Quantum Mechanics, the Foundation of Atomic Physics

Quantum mechanics holds the key to unlocking the enigmatic behavior of atoms. This book delves into the principles of quantum mechanics, guiding you through the concepts of wave-particle duality, superposition, and the uncertainty principle. Gain a deep understanding of the fundamental principles that govern the quantum realm.



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## Uncover the Mysteries of Nuclear Physics

Venture into the realm of nuclear physics, where the fundamental forces that govern the nucleus are revealed. From the structure of the nucleus to the processes of nuclear reactions, this book provides an in-depth exploration of the fascinating world of nuclear physics.

Decay Type	Radiation Emitted	Generic Equation	Model
Alpha decay	$\frac{2}{3}\alpha$	$\frac{A}{Z}X \rightarrow \frac{A-4}{Z-2}X + \frac{4}{2}\alpha$	
Beta decay	$\frac{1}{2}\beta$	$\frac{A}{Z}X \rightarrow \frac{A}{Z+1}X + \frac{0}{-1}\beta$	
Positron emission	$\frac{1}{2}\beta^+$	$\frac{A}{Z}X \rightarrow \frac{A}{Z-1}X + \frac{0}{+1}\beta^+$	
Electron capture	X-rays	$\frac{A}{Z}X + \frac{0}{-1}\beta \rightarrow \frac{A}{Z-1}X + \text{X-ray}$	
Gamma emission	$\frac{0}{0}\gamma$	$\overset{\text{excitation}}{\frac{A}{Z}X} \rightarrow \frac{A}{Z}X + \frac{0}{0}\gamma$	
Spontaneous fission	Neutrons	$\frac{A}{Z}X \rightarrow \frac{A}{Z}X - \frac{B}{Y}X + \frac{C}{D}n$	

## Discover the Cutting-Edge Frontiers of Atomic Research

The book culminates with an exploration of the latest frontiers of atomic physics research. Dive into the exciting developments in fields such as quantum computing, atomic clocks, and laser physics, and witness the transformative potential of atomic physics in shaping our future.



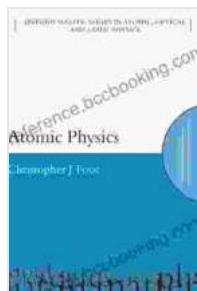
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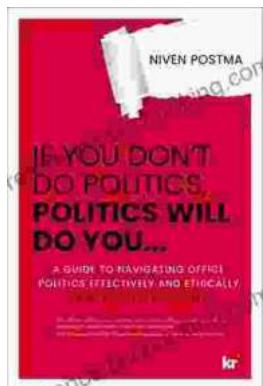
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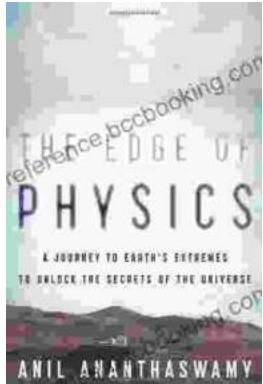
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