

1. Record Nr.	UNINA9910686787303321
Autore	Kok Pieter <1972->
Titolo	A First introduction to quantum physics // Pieter Kok
Pubbl/distr/stampa	Cham, Switzerland : , : Springer International Publishing AG, , [2023] ©2018
ISBN	9783031161650 9783031161643
Edizione	[Second edition.]
Descrizione fisica	1 online resource (304 pages)
Collana	Undergraduate Lecture Notes in Physics
Disciplina	530.15
Soggetti	Mathematical physics Quantum theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Chapter 1: Three simple experiments -- Chapter 2: Photons and Interference -- Chapter 3: Electrons with Spin -- Chapter 4: Atoms and Energy -- Chapter 5: Operators -- Chapter 6: Entanglement -- Chapter 7: Decoherence -- Chapter 8: The Motion of Particles -- Chapter 9: Uncertainty Relations -- Chapter 10: The Nature of Reality.
Sommario/riassunto	In this undergraduate textbook, now in its 2nd edition, the author develops the quantum theory from first principles based on very simple experiments: a photon traveling through beam splitters to detectors, an electron moving through magnetic fields, and an atom emitting radiation. From the physical description of these experiments follows a natural mathematical description in terms of matrices and complex numbers. The first part of the book examines how experimental facts force us to let go of some deeply held preconceptions and develops this idea into a description of states, probabilities, observables, and time evolution. The quantum mechanical principles are illustrated using applications such as gravitational wave detection, magnetic resonance imaging, atomic clocks, scanning tunneling microscopy, and many more. The first part concludes with an overview of the complete quantum theory. The second part of the book covers more advanced topics, including the concept of entanglement, the process of decoherence or how quantum systems become classical, quantum

computing and quantum communication, and quantum particles moving in space. Here, the book makes contact with more traditional approaches to quantum physics. The remaining chapters delve deeply into the idea of uncertainty relations and explore what the quantum theory says about the nature of reality. The book is an ideal accessible introduction to quantum physics, tested in the classroom, with modern examples and plenty of end-of-chapter exercises.

2. Record Nr.

Autore

Titolo

Pubbl/distr/stampa

ISBN

Descrizione fisica

UNICAMPANIAVAN0024211

Smart, Nigel P.

The algorithmic resolution of diophantine equations / Nigel P. Smart

Cambridge, : Cambridge university, 1998

05-216-4156-X

Soggetti

11-XX - Number theory [MSC 2020]

11D25 - Cubic and quartic Diophantine equations [MSC 2020]

11J86 - Linear forms in logarithms; Baker's method [MSC 2020]

11G05 - Elliptic curves over global fields [MSC 2020]

14G05 - Rational points [MSC 2020]

11D57 - Multiplicative and norm form equations [MSC 2020]

11Y50 - Computer solution of Diophantine equations [MSC 2020]

11G30 - Curves of arbitrary genus or genus ≥ 1 over global fields [MSC 2020]

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

Livello bibliografico

Monografia

3. Record Nr.	UNINA9910809800103321
Titolo	Signposts : policy and practice for teaching about religions and non-religious world views in intercultural education
Pubbl/distr/stampa	Strasbourg, France : , : Council of Europe Publishing, , 2014 2014
ISBN	92-871-8006-7 92-871-7966-2
Descrizione fisica	1 online resource (130 pages)
Disciplina	370.117094
Soggetti	Multicultural education - Europe Religious pluralism - Europe
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.