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Titolo	Some unusual topics in quantum mechanics // Pankaj Sharan
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Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XV, 104 p. 3 illus.)
Collana	SpringerBriefs in Physics, , 2191-5423
Disciplina	530.12
Soggetti	Quantum theory Elementary Particles, Quantum Field Theory Mathematical physics
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Position operators of non-relativistic quantum mechanics -- A bundle picture of quantum mechanics -- A beam of particles = a plane wave? -- Star-product formulation of quantum mechanics -- Can there be a non-linear quantum mechanics? -- Interaction = exchange of quanta -- Proof of Wigner's theorem.
Sommario/riassunto	In this book, the author addresses selected topics in quantum mechanics that are not usually covered in books, but which are very helpful in developing a student's interest in, and a deeper understanding of the subject. The topics include two different ways of looking at quantum mechanics; three clarifying topics that students often find confusing; one classic theorem never proved in the classroom; and a discussion on whether there can be a non-linear quantum mechanics. The book can be used as supporting material for graduate-level core courses on quantum mechanics.