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   Sommario/riassunto The nonlinear Schrodinger equation is a prototypical dispersive
                       nonlinear partial differential equation that has been derived in many
                       areas of physics and analyzed mathematically for many years. With this
                       book, we aim to capture different perspectives of researchers on the
                       nonlinear Schrodinger equation arising from theoretical, numerical, and
                       experimental aspects. The eight chapters cover a variety of topics
                       related to nonlinear optics, quantum mechanics, and physics. This
                       book provides scientists, researchers, and engineers as well as
                       graduate and post-graduate students working on or interested in the
                       nonlinear Schrodinger equation with an in-depth discussion of the
                       latest advances in nonlinear optics and quantum physics.