



The Defocusing Nonlinear Schroedinger Equation: From Dark Solitons to Vortices and Vortex Rings (Paperback)

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Society for Industrial Applied Mathematics, U.S., United States, 2016. Paperback. Condition: New. Language: English . Brand New Book. Bose-Einstein condensation is a phase transition in which a fraction of particles of a boson gas condenses into the same quantum state known as the Bose-Einstein condensate (BEC). This book, a broad study of nonlinear excitations in self-defocusing nonlinear media, presents a wide array of findings in the realm of BECs and on the nonlinear Schroedinger-type models that arise therein. It summarizes state-of-the-art knowledge on the defocusing nonlinear Schroedinger-type models in a single volume and contains a wealth of resources, including over 800 references to relevant articles and monographs and a meticulous index for ease of navigation. This book is intended for atomic and condensed-matter physicists, nonlinear scientists, and applied mathematicians. It will be equally valuable to beginners and experienced researchers in these fields.

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