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Título: Fundamentals And New Frontiers Of Bose-Einstein Condensation

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Sinopsis

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This book covers the fundamentals of and new developments in gaseous Bose-Einstein condensation. It begins with a review of fundamental concepts and theorems, and introduces basic theories describing Bose-Einstein condensation (BEC). It then discusses some recent topics such as fast-rotating BEC, spinor and dipolar BEC, low-dimensional BEC, balanced and imbalanced fermionic superfluidity including BCS-BEC crossover and unitary gas, and p-wave superfluidity.

Contents:

Fundamentals of Bose-Einstein Condensation

Weakly Interacting Bose Gas

Trapped Systems

Linear Response and Sum Rules

Statistical Mechanics of Superfluid Systems in a Moving Frame

Spinor Bose-Einstein Condensate

Vortices

Fermionic Superfluidity

Low-Dimensional Systems

Dipolar Gases

Optical Lattices

Topological Excitations