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Nota di contenuto	Contents -- Preface -- Analysis and efficient computation for the dynamics of two-component Bose-Einstein condensates -- Quantised vortices, travelling coherent structures and superfluid turbulence -- Existence and properties of travelling waves for the Gross-Pitaevskii equation -- On the semi-classical limit for the nonlinear Schrodinger equation -- The Gross-Pitaevskii equation in the energy space -- Scattering theory for the Gross-Pitaevskii equation -- Periodic oscillations of dark solitons in parabolic potentials.