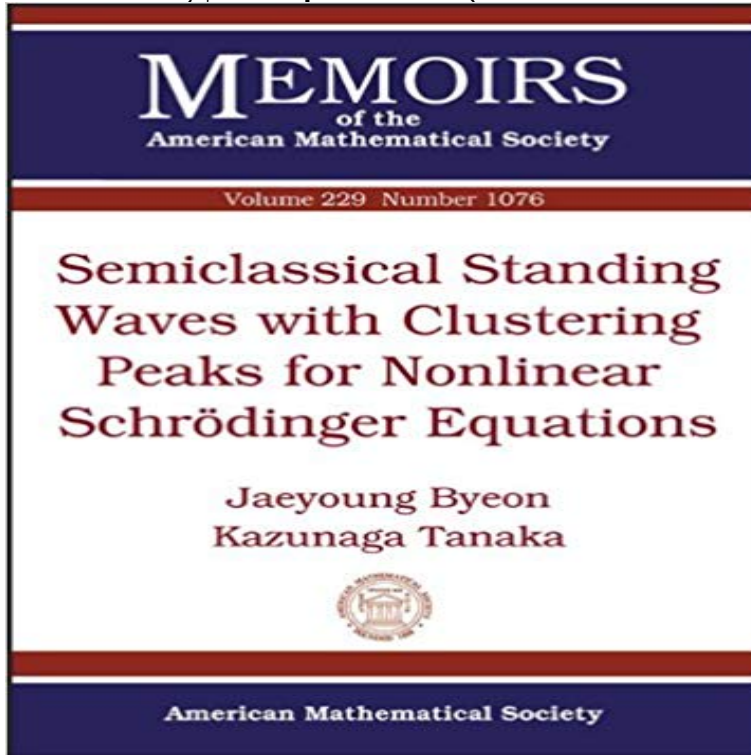


# Semiclassical Standing Waves With Clustering Peaks for Nonlinear Schrodinger Equations (Memoirs of the American Mathematical Society)



The authors study the following singularly perturbed problem:  $-\Delta u - \epsilon \Delta^2 u = f(u)$  in  $\mathbb{R}^N$ . Their main result is the existence of a family of solutions with peaks that cluster near a local maximum of  $V(x)$ . A local variational and deformation argument in an infinite dimensional space is developed to establish the existence of such a family for a general class of nonlinearities  $f$ .

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