

NONLINEAR ALFVEN WAVES AND SOLITONS
IN COLD PLASMA

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S u m m a r y

A finite-zone sector for the derivative nonlinear Schrodinger equation, which describes nonlinear small-amplitude Alfvén waves in the long-wave approximation, is investigated. The formulas for periodic one-phase and one-soliton solutions and the general formula for an n -soliton solution envelope are obtained.