

KINETIC AND DISSIPATIVE EFFECTS IN
NONLINEAR MODEL SYSTEMS

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S u m m a r y

We study the kinetic properties of solitons, analyse the soliton-soliton interaction in the models SG and NSh, construct the collisional terms, formulate the kinetic equation for solitons, prove the entropy production, derive the transport equations, and calculate the kinetic coefficients. The kinetic properties of solitons that interact between each other and with defects are also analysed.