

Title: Partially holomorphic solutions to nonlinear singular equations
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Abstract:

We present local existence and uniqueness theorems for classes of singular nonlinear partial differential equations. The solutions being considered are in the category of partially holomorphic functions, i.e., holomorphy is assumed in the 'space' variable x but only continuity in the 'time' variable t . Our results are analogues of Nagumo's Theorem to singular PDEs.