

CLASSIFICATION SCHEMES OF NONOSCILLATORY SOLUTIONS FOR TWO-DIMENSIONAL TIME SCALE SYSTEMS

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Abstract. Asymptotic properties of solutions for nonlinear systems are significant in order to obtain enough information about the behavior of systems. We deal with a two dimensional time scale nonlinear system and show the (non)existence of nonoscillatory solutions by using most well – known fixed point theorems. We also provide several examples whose solutions are known explicitly.

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