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NEW RESULTS ON THE ASYMPTOTIC BEHAVIOR OF A THIRD–ORDER NON LINEAR DIFFERENTIAL EQUATION

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Abstract

Sufficient conditions are established for the asymptotic behavior of a third-order non-linear differential equation. Our results improve on Qian's [C.Qian, Asymptotic behavior of a third-order non linear differential equation, J.Math.Anal.Appl., 284(2003), 191–205]

Keywords

Non linear differential equation, asymptotic behavior, Lyapunov's method.