

Staněk, Svatoslav

Boundary value problems for one-parameter second-order differential equations. (English)

Zbl 0804.34020

Pr. Nauk. Uniw. Śląsk. Katowicach 1399, Ann. Math. Silesianae 7, 89-98 (1993).

Sufficient conditions for the existence of solutions of a one-parameter differential equation $x'' = f(t, x, x', \lambda)$ satisfying certain functional boundary conditions, or three or four points boundary conditions, are stated. In the first case the uniqueness of solution is discussed, too.

Reviewer: M.Greguš (Bratislava)

MSC:

34B10 Nonlocal and multipoint boundary value problems for ordinary differential equations

Cited in 1 Document

34B15 Nonlinear boundary value problems for ordinary differential equations

Keywords:

existence; functional boundary conditions; three or four points boundary conditions; uniqueness