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On non-linear boundary value problems containing parameters. (English) [Zbl 1090.34519](#)
[Arch. Math., Brno 36, Suppl., 585-593 \(2000\)](#).

The author considers a boundary value problem for nonlinear ordinary differential equation with two parameters involving both in the equation and in the nonlinear boundary conditions. By using a suitable substitution of variables he reduces the given problem to a family of those with linear boundary conditions and some nonlinear determining equations. Then he applies an iterative method to find an approximate solution of given problem.

Reviewer: [Robert Hakl \(Brno\)](#)

MSC:

[34B10](#) Nonlocal and multipoint boundary value problems for ordinary differential equations

Keywords:

[parametrised boundary value problems](#); [non-linear boundary conditions](#); [numerical-analytic methods](#); [successive approximation](#); [determining equations](#)

Full Text: [EuDML](#) [EMIS](#)