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**A posteriori error bounds for the approximate solution of second-order ODEs by piecewise coefficients perturbation methods.** (English) Zbl 1104.65084  
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The paper deals with ordinary differential equations (ODEs) of second order solved by a piecewise coefficients perturbation method. The author presents a constructive approach for the computation of upper and lower bounds for the error. Adequate numerical simulations are presented.

Reviewer: [Emil Minchev \(Russe\)](#)

**MSC:**

- [65L70](#) Error bounds for numerical methods for ordinary differential equations
- [65L10](#) Numerical solution of boundary value problems involving ordinary differential equations
- [35B15](#) Almost and pseudo-almost periodic solutions to PDEs

Cited in **3** Documents

**Keywords:**

[collocation](#); [tau method](#); [error bounds](#); [numerical examples](#); [piecewise coefficients perturbation method](#)

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