

**Arrowsmith, D. K.; Place, C. M.**

**Ordinary differential equations. A qualitative approach with applications. Transl. from the English. (Обыкновенные дифференциальные уравнения. Качественная теория с приложениями.)** (Russian) [Zbl 0671.34001](#)

Sovremennaya Matematika. Vvodnye Kursy. Moskva: Mir. 243 p. R. 0.95 (1986).

For a review of the English original (1982) see [Zbl 0481.34005](#).

**MSC:**

- [34-01](#) Introductory exposition (textbooks, tutorial papers, etc.) pertaining to ordinary differential equations
- [34A30](#) Linear ordinary differential equations and systems, general
- [34A34](#) Nonlinear ordinary differential equations and systems, general theory
- [37C10](#) Dynamics induced by flows and semiflows
- [93A05](#) Axiomatic systems theory
- [91B99](#) Mathematical economics
- [70G99](#) General models, approaches, and methods

Cited in <b>1</b> Review Cited in <b>13</b> Documents
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**Keywords:**

[mechanical oscillation](#); [autonomous equations](#); [phase portraits](#); [qualitative equivalence](#); [electrical oscillating systems](#); [Lyapunov functions](#); [geometrical approach of catastrophe theory](#); [bifurcation](#)