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**Perturbations of an abstract Euler-Poisson-Darboux equation.** (English. Russian original)

Zbl 0898.34057

Math. Notes 60, No. 3, 269-273 (1996); translation from Mat. Zametki 60, No. 3, 363-369 (1996).

Summary: The stability of the uniform correctness of the Cauchy problem

$$u''(t) + \frac{k}{t}u'(t) = Au(t), \quad t > 0, \quad u(0) = u_0, \quad u'(0) = 0,$$

for  $k > 0$  is studied with respect to perturbations of the operator  $A$ .

**MSC:**

34G20 Nonlinear differential equations in abstract spaces

35Q05 Euler-Poisson-Darboux equations

Cited in 4 Documents

**Keywords:**

stability; uniform correctness; Cauchy problem; perturbations

**Full Text:** [DOI](#)

**References:**

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