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Global attractors of nonautonomous disperse dynamical systems and differential inclusions.
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Bul. Acad. Ştiinţe Repub. Mold., Mat. 1999, No. 1(29), 3-22 (1999).

The authors study the longtime behavior of abstract nonautonomous dynamical systems without uniqueness. The main result of the paper is the extension of the attractors theory to the class of dissipative nonautonomous dynamical systems generated by multivalued (set-valued) operators. The applications of the obtained results to ordinary differential equations with non Lipschitz nonlinearities, differential inclusions and functional-differential equations are also considered. The alternative approach to nonautonomous dynamical systems without uniqueness which is based on the concept of a trajectory dynamical system and trajectory attractors can be found in [*V. V. Chepyzhov* and *M. I. Vishik*, Attractors for equations of mathematical physics. Colloquium Publications. 49. Providence, RI: American Mathematical Society (2002; [Zbl 0986.35001](#))].

Reviewer: [Serguei Zelik \(Chasseneuil Futuroscope\)](#)

MSC:

- [37B55](#) Topological dynamics of nonautonomous systems
- [34A60](#) Ordinary differential inclusions
- [34D45](#) Attractors of solutions to ordinary differential equations
- [34K06](#) Linear functional-differential equations
- [37B25](#) Stability of topological dynamical systems

Cited in **4** Documents

Keywords:

[nonautonomous dynamical systems](#); [multivalued maps](#); [attractors](#)