

Random Attractors*Hans Crauel* (Goethe-Univ. Frankfurt)

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For deterministic systems with nontrivial limit behaviour the concept of a global attractor has turned out to be useful. In order to incorporate random influences into the mathematical model one may use *random dynamical systems* (RDS). The notion of a *random attractor* for an RDS has been introduced in the early nineties, and it has found a lot of interest. RDS and random attractors are introduced and discussed, and some major results are described. For instance, random attractors of small random perturbations of a deterministic system may be considerably smaller than the attractor of the deterministic system. Finally, probabilistic characterizations of strong and weak random attractors, which have been obtained recently, are presented.