Renormalization Of Continuous-time Dynamical Systems With KAM Applications

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Summary : Free renormalization of continuous-time dynamical systems with kam applications pdf download - in the special case of two degree of freedom hamiltonian vector fields we also construct a sequence of renormalization group transformations with an attracting integrable limit set directly on a space of hamiltonian functions as an application of the scheme we give a proof of kam theorem for hamiltonians satisfying a nondegeneracy condition on a numerical level the scheme can be applied to obtain the critical function of one-parameter families of two-degree of freedom hamiltonian systems

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dynamical methods for differential equations - ... periodic and stable behaviour in dynamical systems, with applications to ... of setvalued nonautonomous dynamical systems. ... and continuous time ...
table of contents - gbv - entropy of dynamical systems p. 48 ... hidden renormalization group near the separatrix p. 83 ... continuous time random walk (ctrw) ...
modular smoothing and finite perturbation theory - for systems which satisfy the conditions of the kam ... the important applications, and the ... smoothing is clear when applied to continuous time systems.