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Nonlinear Oscillations and Waves in Dynamical Systems by P. S. Landa Department of Physics, Moscow State University, Moscow, Russia KLUWER ACADEMIC PUBLISHERS DORDRECHT / BOSTON / LONDON . Contents Preface xiii Introduction 1 1 The purpose and subject matter of the book 1 2 The definition and significance of the theory of oscillations and waves. The subject area of its investigations. The ...

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dynamical systems theory. The second, for such a system, although long term dynamics are simple, the transient, finite-time ones are of the most theoretical and physical interests. We remark that though there have been many studies in transient dynamics such as chaos and nonlinear waves ([1], [2], [8], [9], [18], [23], [28]), transient oscillations have not been much explored in dynamical ...

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(Ott) Chaos in dynamical systems, 1993. Edward Ott, Cambridge University Press. Additional reading: (GH) Nonlinear Oscillations, Dynamical Systems and Bifurcations of Vector Fields, Guckenheimer, J and P. Holmes, Springer-Verlag, 1983. (W) Introduction to Applied Nonlinear Dynamical Systems and Chaos. Stephen Wiggins, 1990. (Texts in Applied ...

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mensional dynamical systems, the search of periodic solutions was regarded as a first step toward better understanding also the complicated flow evolu-tion of Hamiltonian PDEs. In this direction Rabinowitz [115] and Brezis-Coron-Nirenberg [40] proved the existence of periodic solutions for nonlinear wave equations via minimax

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