

Periodic Solutions of Nonlinear Dynamical Systems

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Reviews

This is basically the best publication i have got read through right up until now. Sure, it really is perform, still an amazing and interesting literature. Your life span will probably be convert once you full reading this article ebook. (Dr. Irma Welch)

PERIODIC SOLUTIONS OF NONLINEAR DYNAMICAL SYSTEMS



Springer Berlin Heidelberg Sep 1991, 1991. Taschenbuch. Condition: Neu. Neuware - Limit cycles or, more general, periodic solutions of nonlinear dynamical systems occur in many different fields of application. Although, there is extensive literature on periodic solutions, in particular on existence theorems, the connection to physical and technical applications needs to be improved. The bifurcation behavior of periodic solutions by means of parameter variations plays an important role in transition to chaos, so numerical algorithms are necessary to compute periodic solutions and investigate their stability on a numerical basis. From the technical point of view, dynamical systems with discontinuities are of special interest. The discontinuities may occur with respect to the variables describing the configuration space manifold or/and with respect to the variables of the vector-field of the dynamical system. The multiple shooting method is employed in computing limit cycles numerically, and is modified for systems with discontinuities. The theory is supported by numerous examples, mainly from the field of nonlinear vibrations. The text addresses mathematicians interested in engineering problems as well as engineers working with nonlinear dynamics. 180 pp. Englisch.

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