

bifurcation phenomena in mathematical pdf

Keywords: Bifurcation Phenomena, Statistica, methodologies, Non-Linearly Coupled Oscillator, Primary Bifurcations, Secondary Bifurcations, Catastrophe Theory. 1. INTRODUCTION Considerable interest has been paid to the bifurcation phenomena of non-linear oscillating systems in engineering applications over the past five years [11.

Unique Mathematical Technique Applied To the Bifurcation

of the bifurcation phenomena in hand and a brief introduction to the mathematical tools which have been developed to study these phenomena. The bifurcations of equilibria in two planar non-smooth continuous systems are analysed by using a generalised Jacobian matrix.

Bifurcation phenomena in non-smooth dynamical systems

Mathematical Sciences 19 J. E. Marsden M. McCracken The Hopf Bifurcation and Its Applications Springer-Verlag ... BIFURCATION PHENOMENA IN POPULATION MODELS ... THE HOPF BIFURCATION AND ITS APPLICATIONS ~ > // / ~. ...

The Hopf Bifurcation and Its Applications - CaltechAUTHORS

One of the main ideas in organizing the Summer Institute of Cargese on "Bifurcation Phenomena in Mathematical Physics and Related Topics" was to bring together Physicists and Mathematicians working on the properties arising from the non linearity of the phenomena and of the models that are used for their description.

Bifurcation Phenomena in Mathematical - springer.com

Bifurcation theory is the mathematical study of changes in the qualitative or topological structure of a given family, such as the integral curves of a family of vector fields, and the solutions of a family of differential equations.

Bifurcation theory - Wikipedia

Another mathematical approach, using Morse Theory was given by J. Smoller reporting on a joint work with C. Conley. An example of a direct application was given by M. Ghil. For physicists the theory of bifurcation is closely related to critical phenomena and this was explained in a series of talks given by J.P. Eckmann, G. Baker and M. Fisher.

Bifurcation Phenomena in Mathematical Physics and Related

The experimental work is concerned with several phenomena studied theoretically in part I (Benjamin 1977). Observations on Taylor-vortex flows between cylinders of comparatively small but variable length are reported, revealing properties unexplained by older theories.

Bifurcation phenomena in steady flows of a viscous fluid

Complex Bifurcation Phenomena in a Tunnel Diode Model Yu-Sheng Huang Advisor: S.W.Teitsworth April 2015 1 Abstract ... ize the bifurcation phenomena by constructing a phase diagram of the system ... the result with mathematical derivation. 3.

Complex Bifurcation Phenomena in a Tunnel Diode Model

We study the bifurcation phenomena of nonlinear waves described by a generalized Zakharov-Kuznetsov equation . We reveal four kinds of interesting bifurcation phenomena. The first kind is that the low-kink waves

can be bifurcated from the symmetric solitary waves, the 1-blow-up waves, the tall-kink waves, and the antisymmetric solitary waves.

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