



Nonlinear Stability and Bifurcation Theory: An Introduction for Engineers and Applied Scientists

Hans Troger, Alois Steindl

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Every student in engineering or in other fields of the applied sciences who has passed through his curriculum knows that the treatment of nonlinear problems has been either avoided completely or is confined to special courses where a great number of different ad-hoc methods are presented. The wide-spread belief that no straightforward solution procedures for nonlinear problems are available prevails even today in engineering circles. Though in some courses it is indicated that in principle nonlinear problems are solvable by numerical methods the treatment of nonlinear problems, more or less, is considered to be an art or an intellectual game. A good example for this statement was the search for Lyapunov functions for nonlinear stability problems in the seventies. However things have changed. At the beginning of the seventies, starting with the work of V.I. Arnold, R. Thom and many others, new ideas which, however, have their origin in the work of H. Poincaré and A. A. Andronov, in the treatment of nonlinear problems appeared. These ideas gave birth to the term Bifurcation Theory. Bifurcation theory allows to solve a great class of nonlinear problems under variation of parameters in a straightforward manner.

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