



## Topics in Dynamic Bifurcation Theory (Paperback)

By Jack K. Hale

American Mathematical Society, United States, 1981.

Paperback. Condition: New. Language: English . Brand New

Book. This set of lectures has two primary objectives. The first

one is to present the general theory of first order bifurcation that occur for vector fields in finite dimensional space.

Illustrations are given of higher order bifurcations. The second

objective, and probably the most important one, is to set up a framework for the discussion of similar problems in infinite

dimensions. Parabolic systems and retarded functional

differential equations are considered as illustrations and

motivations for the general theory. Readers familiar with

ordinary differential equations and basic elements of nonlinear

functional analysis will find that the material is accessible and

the fundamental results in bifurcation theory are presented in

a way to be relevant to direct application. Most of the

expository material consists of a concise presentation of basic

results and problems in structural stability. The most

significant contribution of the book is the formulation of

structural stability and bifurcation in infinite dimensions. Much

research should come from this - indeed some have already

picked up the ideas in their work.



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