



Global Analysis Of Dynamical Systems

Author : H W Broer B Krauskopf Gert Vegter / **Category :** Mathematics / **Total Pages :** 464 pages

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Summary : Free global analysis of dynamical systems pdf download - contributed by close colleagues friends and former students of Floris Takens. Global analysis of dynamical systems is a *liber amicorum* dedicated to Takens for his 60th birthday. The first chapter is a reproduction of Takens's 1974 paper 'Forced oscillators and bifurcations' that was previously available only as a preprint of the University of Utrecht. Among other important results, it contains the unfolding of what is now known as the Bogdanov-Takens bifurcation. The remaining chapters cover topics as diverse as bifurcation theory, Hamiltonian mechanics, homoclinic bifurcations, routes to chaos, ergodic theory, renormalization theory, and time series analysis. In its entirety, the book bears witness to the influence of Takens on the modern theory of dynamical systems and its applications. This book is a must-read for anyone interested in this active and exciting field.

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