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The analysis of observed time series from nonlinear systems is usually done by making a time-delay reconstruction to unfold the dynamics on a multi-dimensional state space.

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9.4.1 Chaotic Nonlinear Circuits 166 9.5 A Few Remarks About Synchronization 170 10 Other Example Systems 173 10.1 Chaotic Laser Intensity Fluctuations 174 10.1.1 Experimental Setup and Data Preparation 175 10.1.2 Analysis of the Chaotic Laser Data 177 10.1.3 A Physical Model for the Process 188 10.1.4 Predicting on the Attractor . 193

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The number of degrees of freedom or. : Analysis of observed chaotic data $u(n+1)=F(u(n))$. Broadly speaking the dynamics of fields differs from that of lowdimensional dynamical systems only because the number of degrees of freedom has become continuous.

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In this thesis, analysis of observed chaotic data has been investigated. The purpose of analyzing time series is to make a classification between the signals observed from dynamical systems. The classifiers are the invariants related to the dynamics. The correlation dimension has been used as classifier which has been

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analysis, chaos, correlation dimension, deterministic, dynamical-systems, local predictability, lyapunov exponents, noise-reduction method, ordinary differential-equations, periodic-orbits, strange attractors, time-series Abstract: Chaotic time series data are observed routinely in experiments on physical systems and in observations in the field.

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When I encountered the idea of chaotic behavior in deterministic dynamical systems, it gave me both great pause and great relief. The origin of the great relief was work I had done earlier on renormalization group properties of homogeneous, isotropic fluid turbulence. At the time I worked on that, it was customary to ascribe the apparently stochastic nature of turbulent flows to some kind of ...

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