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itself. This contamination can come from environmental variables unmeasured by the instruments or from properties of the observation instruments.

The analysis of observed chaotic data in physical systems

I certainly agreed with him, but neither of us were able to provide

any other reasonable suggestion for the observed, apparently stochastic motions of the turbulent fluid. So it was with relief that chaos in nonlinear systems, namely, complex evolution, indistinguish able from stochastic motions using standard tools such as Fourier analysis ...

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A clear and systematic treatment of time series of data, regular and chaotic, found in nonlinear systems. The text leads readers from measurements of one or more variables through the steps of building models of the source as a dynamical system, classifying the source by its dynamical characteristics, and finally predicting and controlling the

dynamical system.

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systematic treatment
of time series of data,
regular and chaotic,
that one finds in
observations of
nonlinear systems.

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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 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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Sidorowich, John J.
Tsimring, Lev Sh.

Abstract. Chaotic time
series data are
observed routinely in
experiments on
physical systems and
in observations in the
field. The authors
review developments
in the extraction of
information of physical
importance from such
measurements. They
discuss methods for (1)
separating the signal of

physical interest from contamination ("noise reduction"), (2) constructing an appropriate state space or phase space for the data in which the full structure of the

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and systematic and
treatment of time
series of data, regular
and chaotic, that one
finds in observations of
nonlinear systems. The
emphasis throughout is
on the use of modern
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investigating chaotic
behavior to uncover
properties of physical
systems.

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