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The Lorenz  
Equations  
Bifurcations  
Chaos And  
Strange  
Attractors  
Applied  
Mathematical  
Sciences By  
Colin Sparrow  
2013 10 04 By  
Colin Sparrow

Lorenz equation  
PlanetMath. Lorenz  
attractors through  
il nikov type  
bifurcation Part.  
Colin Sparrow

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Publications. Chaos  
Encyclopedia of  
Mathematics. The  
Lorenz Equations  
Bifurcations Chaos  
and Strange. ME 406  
The Lorenz  
Equations  
University of  
Rochester. Chaotic  
and non chaotic  
strange attractors  
of a class of.  
Chaos The  
Mathematics Behind  
the Butterfly Effect.  
The Lorenz  
Equations  
Bifurcations Chaos  
and Strange. The  
Lorenz system  
Department of  
Mathematics. The  
Lorenz equations

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bifurcations chaos  
and strange. A  
physically extended  
Lorenz system Chaos  
An. Lorenz  
Bifurcation  
Instabilities in  
Quasireversible  
Systems. Tri  
stability in the  
Lorenz System. The  
Lorenz Equations  
Bifurcations Chaos  
and Strange.  
Sparrow C The  
Lorenz Equations  
Bifurcations Chaos.  
PDF Introduction to  
Lorenz s System of  
Equations.  
Bifurcation schemes  
of the Lorenz model  
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406 The Lorenz

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Equations. The  
Lorenz Equations  
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Lorenz equations.

Lecture 17 Chaos in  
the Lorenz

Equations

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Dynamical Systems

12 3 The Lorenz.

The Lorenz

Equations

Bifurcations Chaos

And Strange. Lorenz

Attractor and

Chaos. The Lorenz

Equations

Bifurcations Chaos

and Strange. From

Strange Attractor

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to Period Doubling  
SpringerLink. The  
Lorenz equations  
bifurcations chaos  
and strange. Chaos  
theory. LORENZ  
CHAOS A TUTORIAL  
arXiv. The Lorenz  
Equations  
Bifurcations Chaos  
and Strange.  
0387907750 The  
Lorenz Equations  
Bifurcations Chaos.  
EXTENDED PHASE  
DIAGRAM OF THE  
LORENZ MODEL  
International.  
Numerical  
Simulation of the  
Lorenz Type Chaotic  
System. Lecture 18  
Strange Attractor  
for the Lorenz

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Equations. MAE5790  
17 Chaos in the  
Lorenz equations.  
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Equations. Lorenz  
system. The Lorenz  
Equations  
Bifurcations Chaos  
and Strange. CHAOS  
STRANGE ATTRACTORS  
AND BIFURCATIONS.  
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Equations  
Bifurcations Chaos  
and Strange. The  
Lorenz Equations  
Bifurcations Chaos  
and Strange. On the  
gluing and ungluing  
of strange  
attractors in the.  
Global bifurcations  
of the Lorenz

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manifold

IOPscience. Sparrow

C The Lorenz

Equations

Bifurcations Chaos.

Symbolic Quest into

Homoclinic Chaos

International. The

Lorenz Equations

Bifurcations Chaos

and Strange

Lorenz equation

PlanetMath

April 29th, 2020 -

What drove Lorenz

to find the set of

three dimensional

ordinary

differential

equations was the

search for an

equation that would

model some of the

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unpredictable  
behavior which we  
normally associate  
with the weather?  
The Lorenz equation  
represent the  
convective motion  
of fluid cell which  
is warmed from  
below and cooled  
from above'' Lorenz  
attractors through  
il nikov type  
bifurcation Part  
May 10th, 2018 -  
Under some other  
natural assumptions  
a generic two  
parameter family  
containing the  
unperturbed vector  
field contains  
geometric Lorenz  
attractors A

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possible  
application of this  
result is a method  
of proving the  
existence of  
geometric Lorenz  
attractors in  
concrete families  
of differential  
equations' 'Colin  
Sparrow

Publications

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Publications 1

Chaotic behaviour  
in single loop

feedback systems

and in the Lorenz

equations Ph D

thesis Cambridge

1980 2 Bifurcations

and chaotic

behaviour in simple

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feedback systems J  
Theo Biol 83 1980  
93 105 3 Chaos in a  
three dimensional  
single loop  
feedback system  
with a piecewise  
linear feed back  
function' '*Chaos  
Encyclopedia of  
Mathematics*

*April 18th, 2020 -  
deterministic chaos  
Chaos describes a  
situation where  
typical solutions  
or orbits of a  
differential  
equation or typical  
evolutions of some  
other model  
describing  
deterministic  
evolution do not*

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*converge to a stationary or periodic function of time but continue to exhibit a seemingly unpredictable behaviour'*

**'The Lorenz Equations Bifurcations Chaos and Strange April 7th, 2020 - The equations which we are going to study in these notes were first presented in 1963 by E N Lorenz They define a three dimensional system of ordinary differential**

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equations that  
depends on three  
real positive  
parameters As we  
vary the parameters  
we change the  
behaviour of the  
flow' 'ME 406 The  
Lorenz Equations  
University of  
Rochester

April 27th, 2020 -  
containing a more  
advanced treatment  
see Nonlinear  
Oscillations  
Dynamical Systems  
and Bifurcations of  
Vector Fields J  
Guckenheimer and P  
Holmes Springer  
Verlag 1983 For a  
book length  
treatment

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containing many  
detailed results  
see The Lorenz  
Equations  
Bifurcations Chaos  
and Strange  
Attractors C  
Sparrow Springer  
Verlag 1982'

'Chaotic and non  
chaotic strange  
attractors of a  
class of  
April 4th, 2020 -  
In this paper the  
dynamics of a class  
of non autonomous  
systems generated  
from a unified  
chaotic autonomous  
system is studied  
It is found via  
parameter

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modulation that  
they have chaotic  
and non chaotic  
strange attractors  
NCSA'

'Chaos The  
Mathematics Behind  
the Butterfly Effect  
April 30th, 2020 -  
must first cover the  
concepts necessary  
to frame chaos This  
paper will explore  
one two and three  
dimensional systems  
maps bifurcations  
limit cycles  
attractors and  
strange attractors  
before looking into  
the mechanics of  
chaos Once chaos is  
introduced we will  
look in depth at

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the Lorenz  
Equations 2 One  
Dimensional  
Systems'

'The Lorenz  
Equations  
Bifurcations Chaos  
and Strange  
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## Publication Data

ISSN print 0036

1445 ISSN online

1095 7200''*The*

*Lorenz system*

*Department of*

*Mathematics*

*April 27th, 2020 -*

*THE LORENZ SYSTEM 1*

*FORMULATION 1*

*Formulation The*

*Lorenz system was*

*initially derived*

*from a Oberbeck*

*Boussinesq*

*approximation This*

*approximation is a*

*coupling of the*

*Navier Stokes*

*equations with*

*thermal convection*

*The original*

*problem was a 2D*

*problem considering*

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*the thermal  
convection between  
two parallel  
horizontal  
plates'* **The Lorenz  
equations  
bifurcations chaos  
and strange  
March 27th, 2020 -  
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and strange  
attractors Colin  
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of mathematics'**

**'A physically  
extended Lorenz  
system Chaos An  
April 10th, 2020 -  
C Sparrow The  
Lorenz Equations**

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*Bifurcations Chaos  
and Strange  
Attractors Springer  
Verlag New York  
1982 as the thermal  
Rayleigh parameter  
 $r$  is raised  
beyond the critical  
number  $r_c$  ? 24  
with  $\beta = 10$  and  $b = 8$   
3'*

**'Lorenz Bifurcation  
Instabilities in  
Quasireversible  
Systems**

April 20th, 2020 -  
We describe the two  
generic  
instabilities which  
arise in  
quasireversible  
systems and show  
that their normal  
forms are the well

---

known real Lorenz  
equations and the  
Maxwell Bloch  
equations'

'Tri stability in  
the Lorenz System  
April 14th, 2020 -  
where the strange  
attractor coexists  
with two stable  
equilibria This is  
mentioned in  
Strogatz Nonlinear  
Dynamics and Chaos  
1994 pp 330 331 who  
references Sparrow  
The Lorenz  
Equations  
Bifurcations Chaos  
and Strange  
Attractors 1982 for  
more detail'

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' The Lorenz  
Equations  
Bifurcations Chaos  
and Strange  
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The Lorenz  
Equations  
Bifurcations Chaos  
and Strange  
Attractors Colin  
Sparrow auth The  
equations which we  
are going to study  
in these notes were  
first presented in  
1963 by E N Lorenz '  
' Sparrow C The  
Lorenz Equations  
Bifurcations Chaos  
March 30th, 2020 -  
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Lorenz Equations  
Bifurcations Chaos  
and Strange

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Attractors Berlin?H  
eidelberg?New York  
Springer?Verlag  
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Abb DM 54 ? ' ' *PDF*  
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' **Bifurcation**  
**schemes of the**  
**Lorenz model**  
**ScienceDirect**

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April 25th, 2020 -  
We investigate the  
properties of the  
Lorenz equations in  
the range  $10 \leq b \leq 14$   
Here as a  
function of  $b$  the  
bifurcation  
structure is found  
to undergo several  
fundamental  
transitions We  
discuss various  
types of positive  
attractors and  
positive metastable  
motion'

***'ME 406 The Lorenz  
Equations***

*April 24th, 2020 -  
containing a more  
advanced treatment  
see Nonlinear*

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*Oscillations  
Dynamical Systems  
and Bifurcations of  
Vector Fields* J  
Guckenheimer and P  
Holmes Springer  
Verlag 1983 For a  
book length  
treatment  
containing many  
detailed results  
see *The Lorenz  
Equations  
Bifurcations Chaos  
and Strange  
Attractors* C  
Sparrow Springer  
Verlag 1982' '**The  
Lorenz Equations**  
Jan 21 2012 edition  
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**The Lorenz  
Equations**

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and Strange  
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The Lorenz  
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Bifurcations Chaos  
and Strange  
Attractors The  
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Format paperback  
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ID Numbers Open  
Library OL27962219M  
ISBN 10 1461257689 '

' Sparrow An  
introduction to the  
Lorenz equations  
April 25th, 2020 -

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**Sparrow An**  
**introduction to the**  
**Lorenz equations**  
**Author Howard Weiss**  
**Created Date 11 26**  
**2015 2 31 56**  
**AM' 'Lecture 17**

***Chaos in the Lorenz***  
***Equations***  
***CosmoLearning***

*April 30th, 2020 -*  
*The theory is*  
*developed*  
*systematically*  
*starting with first*  
*order differential*  
*equations and their*  
*bifurcations*  
*followed by phase*  
*plane analysis*  
*limit cycles and*  
*their bifurcations*  
*and culminating*  
*with the Lorenz*

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*equations chaos  
iterated maps  
period doubling  
renormalization  
fractals and  
strange  
attractors''*12

## **Nonlinear Dynamics Dynamical Systems**

### **12 3 The Lorenz**

April 17th, 2020 -

12 Nonlinear

Dynamics Dynamical  
Systems 12 3 The

Lorenz Equations 10  
units Some

familiarity with  
the Part II course

Dynamical Systems  
would be helpful

for this project  
which is concerned

with bifurcations  
and chaos in

---

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ordinary differential equations  
1 The Lorenz equations'

'The Lorenz  
Equations  
Bifurcations Chaos  
And Strange  
March 27th, 2020 -  
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Sciences 1982 by  
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s Book Store  
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and free delivery  
on eligible orders'

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## **'Lorenz Attractor and Chaos**

March 21st, 2020 -  
The Lorenz chaotic  
attractor was  
discovered by  
Edward Lorenz in  
1963 when he was  
investigating a  
simplified model of  
atmospheric  
convection It is a  
nonlinear system of  
three differential  
equations'

## **'The Lorenz Equations**

## **Bifurcations Chaos and Strange**

February 14th, 2020  
- The Lorenz  
Equations  
Bifurcations Chaos  
and Strange

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Attractors The equations which we are going to study in these notes were first presented in 1963 by E N Lorenz. They define a three dimensional system of ordinary differential equations

that ' ' **From Strange Attractor to Period Doubling**

SpringerLink

April 4th, 2020 -

Finally we shall work towards a global understanding of the Lorenz equations which will be useful when we want to know how

---

---

the Lorenz  
equations behave  
for parameter  
values other than ?  
10 and  $b = 8/3$  and  
which shows how  
strange attractor  
and period doubling  
fit together in a  
more general  
context'

'The Lorenz  
equations  
bifurcations chaos  
and strange

April 27th, 2020 -  
The Lorenz  
equations

bifurcations chaos  
and strange

attractors Colin  
Sparrow Springer  
Verlag New York  
1982 Australian

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Harvard Citation  
Sparrow Colin 1982  
The Lorenz  
equations  
bifurcations chaos  
and strange  
attractors Colin  
Sparrow Springer  
Verlag New York  
Citation' '**Chaos  
theory**

**April 30th, 2020 -  
Chaos theory is a  
branch of  
mathematics  
focusing on the  
study of  
chaos?states of  
dynamical systems  
whose apparently  
random states of  
disorder and  
irregularities are  
often governed by**

---

---

deterministic laws  
that are highly  
sensitive to  
initial conditions  
Chaos theory is an  
interdisciplinary  
theory stating that  
within the apparent  
randomness of  
chaotic plex  
systems there are  
underlying'

' LORENZ CHAOS A  
TUTORIAL arXiv  
April 30th, 2020 -  
patterns produced by  
the deterministic  
chaos in the Lorenz  
like systems 2  
Homoclinic  
bifurcations in  
systems with the  
Lorenz attractor

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---

The strange chaotic attractor in the Lorenz equation from hydrodynamics has been a de facto proof of deterministic chaos. The butterfly shaped image of the iconic Lorenz attractor shown in Fig 5 has been

*'The Lorenz Equations*

*Bifurcations Chaos and Strange*

*April 8th, 2020 -*

*The equations which we are going to study in these notes were first presented in 1963 by E N Lorenz. They define a three*

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---

*dimensional system  
of ordinary  
differential  
equations that  
depends on three  
real positive  
parameters As we  
vary the parameters  
we change the  
behaviour of the  
flow determined by  
the equations For  
some parameter  
values numerically  
puted solutions of  
the equations'*

**'0387907750 The  
Lorenz Equations  
Bifurcations Chaos  
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LORENZ MODEL  
International  
January 15th, 2020  
- The parameter  
dependence of the  
various attractive  
solutions of the  
three variable  
nonlinear Lorenz  
equations is  
studied as a  
function of  $r$  the

---

normalized Rayleigh  
number and of  $\nu$  the  
Prandtl

numerical  
Simulation of the  
Lorenz Type Chaotic  
System

April 18th, 2020 -

Although some  
numerical methods  
of the Lorenz  
system have been  
announced simple  
and efficient  
methods have always  
been the direction  
that scholars  
strive to pursue  
Based on this  
problem this paper  
introduces a novel  
numerical method to  
solve the Lorenz  
type chaotic system

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which is based on  
barycentric  
Lagrange  
interpolation  
collocation method  
BLICM'

***'Lecture 18 Strange  
Attractor for the  
Lorenz Equations***

*April 13th, 2020 -  
The theory is  
developed  
systematically  
starting with first  
order differential  
equations and their  
bifurcations  
followed by phase  
plane analysis  
limit cycles and  
their bifurcations  
and culminating  
with the Lorenz*

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*equations chaos  
iterated maps  
period doubling  
renormalization  
fractals and  
strange attractors'*

**'MAE5790 17 Chaos  
in the Lorenz  
equations**

**April 5th, 2020 -  
Liapunov function**

**Boundedness Hopf  
bifurcations No**

**quasiperiodicity**

**MAE5790 17 Chaos in  
the Lorenz**

**equations Cornell**

**MAE MAE5790 18**

**Strange attractor  
for the Lorenz  
equations'**

**'Customer reviews**

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users' '**Lorenz  
system**

April 30th, 2020 -  
The Lorenz system  
is a system of  
ordinary  
differential  
equations first  
studied by Edward  
Lorenz It is

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notable for having  
chaotic solutions  
for certain  
parameter values  
and initial  
conditions In  
particular the  
Lorenz attractor is  
a set of chaotic  
solutions of the  
Lorenz system In  
popular media the  
butterfly effect  
stems from the real  
world implications  
of the Lorenz  
attractor i e that  
in'

**'The Lorenz  
Equations**

**Bifurcations Chaos  
and Strange**

April 25th, 2020 -  
The equations which

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we are going to study in these notes were first presented in 1963 by E N Lorenz They define a three dimensional system of ordinary differential equations that depends on three real positive parameters'

**' CHAOS STRANGE  
ATTRACTORS AND  
BIFURCATIONS**

*April 26th, 2020 -  
Local Bifurcations  
The Hopf Bifu  
cation CHAOS AND  
STRANGE ATTRACTORS  
IN HIGHER  
DIMENSIONAL SYSTEMS*

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*Dissipative Systems  
and Chaos Cantor  
Sets The importance  
of Sensitivity to  
Initial Conditions  
The Rossler  
Attr·actor*

*Autonomous Systems  
The Convection  
Model of Lorenz The  
Galerkin*

*Approximation*

*Rayleigh Benard*

*Conve tion' 'The*

**Lorenz Equations**

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and Strange  
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equations which we  
are going to study  
in these notes were  
first presented in  
1963 by E N Lorenz  
They define a three  
dimensional system  
of ordinary

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differential  
equations that  
depends on three'

'On the gluing and  
ungluing of strange  
attractors in the  
April 22nd, 2020 -  
Such a pair of  
orbits arises from  
the symmetry  $x y z$   
 $x y z$  of the system  
of equations 1 Such  
an ungluing of a  
strange attractor  
does not seem to  
have been observed  
earlier for the  
Lorenz system Thus  
in this parametric  
domain we observe  
coexisting strange  
attractors for the  
Lorenz system again

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not reported  
earlier'' Global  
bifurcations of the  
Lorenz manifold  
IOPscience  
May 27th, 2019 -  
Global bifurcations  
of the Lorenz  
manifold paper we  
consider the  
interaction of the  
Lorenz manifold?the  
two dimensional  
stable manifold of  
the origin of the  
Lorenz  
equations?with the  
two dimensional  
unstable manifolds  
of the Sparrow C  
1982 The Lorenz  
Equations  
Bifurcations Chaos  
and Strange

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## **' Sparrow C The Lorenz Equations Bifurcations Chaos**

April 3rd, 2020 -  
Title Sparrow C The  
Lorenz Equations  
Bifurcations Chaos  
and Strange  
Attractors Berlin  
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1982 XII 269 S 91  
Abb DM 54 ?'

## **' Symbolic Quest into Homoclinic Chaos International**

April 3rd, 2020 -  
Shilnikov A 1986  
Bifurcations and  
chaos in the  
Morioka?Shimizu

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model Part I  
Methods of  
Qualitative Theory  
of Differential  
Equations Gorky  
University in  
Russian pp 180?193  
Google Scholar  
Shilnikov A 1989  
Bifurcations and  
chaos in the  
Morioka?Shimizu  
model '

**'The Lorenz  
Equations  
Bifurcations Chaos  
and Strange**

*April 23rd, 2020 -  
The equations which  
we are going to  
study in these  
notes were first  
presented in 1963*

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by E N Lorenz They  
define a three  
dimensional system  
of ordinary  
differential  
equations that  
depends on three  
real positive  
parameters As we  
vary the parameters  
we change the  
behaviour of the  
flow determined by  
the equations''

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