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Chaos theory is an interdisciplinary theory and branch of mathematics focusing on the study of chaos: dynamical systems whose apparently random states of disorder and irregularities are actually governed by underlying patterns and deterministic laws that are highly sensitive to initial

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conditions. Chaos theory states that within the apparent randomness of chaotic complex systems, there are ...

## **Chaos theory - Wikipedia**

Whether or not chaotic dynamics represents a genuine scientific paradigm, the use of the term 'chaos theory' in much of the scientific and philosophical literature

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has the definite flavor of characterizing and understanding complex behavior rather than an emphasis on the formal structure of principles and hypotheses.

### **Chaos (Stanford Encyclopedia of Philosophy)**

In mathematics and science, a nonlinear system is a system in which the change of the output is not

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proportional to the  
change of the input.

Nonlinear problems are  
of interest to

engineers, biologists,  
physicists,

mathematicians, and  
many other scientists

because most systems  
are inherently

nonlinear in nature.

Nonlinear dynamical  
systems, describing

changes in variables  
over time, may appear

...



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**Nonlinear system -  
Wikipedia**

Complexity Theory and  
Nursing: Explanation  
and Application

Complexity theory  
emerged from the  
mathematically based  
science of physics,  
particularly quantum  
physics in which  
“relationship is the key  
determiner of  
everything” (Wheatley,  
1999, p.11). Studying  
the properties of  
complex systems and

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applying these ideas to nursing helps us to think differently about our profession.

## **Complexity Theory and Nursing: Explanation and Application ...**

Traditional qualitative analysis of difference and differential equations provides background for understanding chaotic behavior when it occurs in these models.

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Topics include stability  
theory, fractals,  
Lyapunov exponents,  
and chaotic attractors.

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661.

## **Mathematics (MATH)** **< George Mason** **University**

A major journal  
reporting work on the  
fundamental  
mathematical and

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computational  
methods underpinning  
physics. Each issue of  
the journal is split into  
six sections: statistical  
physics; chaotic and  
complex systems;  
mathematical physics;  
quantum mechanics  
and quantum  
information theory;  
classical and quantum  
field theory; and fluid  
and plasma theory.

**Journal of Physics A:  
Mathematical and**

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Yet, while chaotic models can give rise to unpredictable trajectories, they rely on steady dynamics: their governing equations are invariant. Although lockdowns were applied in China during the period ranging from DoY 23–29, due to the incubation time the results of these measures started to become effective

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around 6 February  
2020.

**Chaos theory  
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A work of popular  
science in the tradition  
of Stephen Hawking  
and Carl Sagan, this  
20th-anniversary  
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Gleick's  
groundbreaking  
bestseller Chaos  
introduces a whole new

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readership to chaos theory, one of the most significant waves of scientific knowledge in our time. From Edward Lorenz's discovery of the Butterfly Effect, to Mitchell Feigenbaum's calculation of

## **Chaos: Making a New Science by James Gleick**

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The basic reproduction number denoted by  $R_0$  is the expected value of infection rate per time unit. The infection occurs in a susceptible population, caused by an infected individual. Based on the system, the article generates an equation that involves the classes of exposed and infected

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population. The disease reproduction number  $R_0$  of the proposed model is defined herein in the infected ...

## **A mathematical model of Coronavirus Disease (COVID-19 ...**

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characters only  
(characters found on a  
standard US keyboard);  
must contain at least 4  
different symbols;

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