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This book (the original version) has all the basics to introduce the future differential equations/dynamical systems researchers into the field. Written by authorities in the field (Hirsch and Smale,) this text offers a wide variety of topics, including linear systems, local and global stability theory for non-linear systems, and applications to physics and biology.

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infectious diseases) this post provides a gentler introduction. If you have not been exposed to dynamical systems theory before, you may find this blog post more accessible than the other two.

A gentle introduction to dynamical systems theory | R-bloggers

Differential Equations, Dynamical Systems, and an Introduction to Chaos. Hirsch, Devaney, and Smale's classic Differential Equations, Dynamical Systems, and an Introduction to Chaos has been used...

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Differential Equations, Dynamical Systems, and Linear Algebra

Ordinary Differential Equations . and Dynamical Systems . Gerald Teschl . This is a preliminary version of the book Ordinary Differential Equations and Dynamical Systems. published by the American Mathematical Society (AMS).

Ordinary Differential Equations and Dynamical Systems

The journal also publishes papers dealing with computational results and applications in biology, engineering, physics and the other sciences, as well

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Journal of Dynamics and Differential Equations | Home  
This is because the  $n$ -dimensional  $dV$  element is in general a parallelepiped in the new coordinate system, and the  $n$ -volume of a parallelepiped is the determinant of its edge vectors. The Jacobian can also be used to solve systems of differential equations at

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Jacobian matrix and determinant - Wikipedia

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List of dynamical systems and differential equations

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