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# Difference Equations From Rabbits To Chaos Undergraduate Texts In Mathematics

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### **Difference Equations From Rabbits To**

Difference Equations: From Rabbits to Chaos is an undergraduate-level textbook on difference equations, a type of recurrence relation in which the values of a sequence are determined by equations involving differences of successive terms of the sequence. It was written by Paul Cull, Mary Flahive, and Robby Robson, and published by Springer-Verlag in their Undergraduate Texts in Mathematics series (Vol. 111, 2005, doi:10.1007/0-387-27645-9, ISBN 978-0-387-23233-1 ).

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## **Difference Equations: From Rabbits to Chaos (Undergraduate ...**

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Difference equations are models of the world around us. From clocks to computers to chromosomes, processing discrete objects in discrete steps is a common theme. Difference equations arise naturally from such discrete descriptions and allow us to pose and answer such questions as: How much? How many? How long? Difference equations are a necessary part of the mathematical repertoire of all ...

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Recognizing the increasing importance of difference equation models in such areas as mathematics, computer science, engineering, and biology and decrying the unevenness of treatments found in discrete mathematics texts, the authors aimed to write a book that provides a solid foundation in the field and is accessible to undergraduates.

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Use the two intermediate equations.  $c[n]=a[n-1]$ ,  $a[n]=a[n-1]+c[n-1]$ ; and the definition  $f[n]=a[n]+c[n]$  to confirm the conjecture.  $f[n]=f[n-1]+f[n-2]$ . 1.1.2 Closed-form solution. The rabbit difference equation is an implicit recipe that computes new values from old values. But does it have a closed form: an explicit formula

## **1 Difference equations - MIT OpenCourseWare**

The bigger the population, the more new rabbits we get! When the population is 2000 we get  $2000 \times 0.01 = 20$  new rabbits per week, etc. So it is better to say the rate of change (at any instant)

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is the growth rate times the population at that instant:  $dN/dt = rN$ . And that is a Differential Equation, because it has a function  $N(t)$  and its derivative.

### **Differential Equations - Introduction**

Difference Equations: From Rabbits to Chaos Paul Cull, Mary Flahive, Robby Robson. Difference equations are models of the world around us. From clocks to computers to chromosomes, processing discrete objects in discrete steps is a common theme. Difference equations arise naturally from such discrete descriptions and allow us to pose and answer ...

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2. Systems of first order difference equations Systems of order  $k > 1$  can be reduced to first order systems by augmenting the number of variables. This is the reason we study mainly first order systems. Instead of giving a general formula for the reduction, we present a simple example. Example 2.1. Consider the second order difference equation  $y_{t+2} \dots$

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## Topic 2: Difference Equations

Get this from a library! Difference equations : from rabbits to chaos. [Paul Cull; Mary E Flahive; Robert O Robson] -- "In this new text, designed for sophomores studying mathematics and computer science, the authors cover the basics of difference equations and some of their applications in computing and in ...

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## Undergraduate Texts in Mathematics Ser.: Difference ...

Let  $I_n$  represent the number of rabbits in the  $n$ th generation of a population. The difference equation (or recurrence relation) that models the population dynamics is given by  $I_{n+2} = I_{n+1} - I_n$ . (a) Find the general solution by letting  $I_n = C^n$  to determine the possible values of  $C$  from the corresponding characteristic equation.

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