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~~Section 1.1 and Section 1.2 to page 18 What is~~
~~Mathematical Modeling? Steps of the Modeling~~
~~Process Wednesday, February 3 (pdf of Notes pages~~
~~9-15) Includes Section 1.3 to page 26 and Section 3.2~~

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to page 153 Definition: Descriptively realistic

Mathematical Models □ Lecture Notes

The Lecture Notes collected in this book refer to a university course delivered at the Politecnico of Torino to students attending the Lectures of the master Graduation in Mathematical Engineering. The Lectures Notes correspond to the first part of the course devoted to modelling issues to show how the application of models to describe real

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The three principles of mathematical modeling

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Illustrated here are. (1) Identify the known and unknown variables that are present in the problem. (2) Identify the relationships between the known and unknown variables in the. problem. (3) Assess the effect of any assumptions made on the relationship between the.

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Lecture Notes on Mathematical Modelling in the Life Sciences

Mathematical Modelling in Biology Lecture Notes Ruth Baker Trinity Term 2018

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 $s = (r - 1) = r$ is a stable steady state since $f'(s) = f'((r - 1) = r) = -2r < -1$. In Figure 1.3 we plot this information on a diagram of steady states, as a function of r , with.

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Stable steady states indicated by solid lines and unstable steady states by dashed lines. When $r = 1$ we have $(r - 1) = r = 0$, so both steady states are at u .

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1.1 What is mathematical modelling? Models describe our beliefs about how the world functions. In mathematical modelling, we translate those beliefs into the language of mathematics. This has many advantages

1. Mathematics is a very precise language. This helps us to formulate ideas and identify underlying assumptions.
- 2.

An Introduction to Mathematical Modelling

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Let $y(n+1) = 2.2y(n)(1 - (y(n))^2) + 0.3(y(n))^2$. give the state of the heart at time n , measured by some sort of potential obtained from Electrocardiograms, (ECGs). If we start the heart at $y(0) = -0.4$, it converges rapidly to a stable oscillation. This is shown in figure 4.12.

An Introduction to Mathematical Modelling

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where. c = number of contacts in the time unit,
 β = infectiveness of one contact with an infective, $N(t)$
 $= S(t) + I(t) + R(t)$ = total population. (2) Moreover,
the removal rate $\gamma(t)$ is usually assumed to be a
constant. $\gamma(t) = \gamma = 1/\tau$. (3) where τ is the average time
spent as an infective, i.e. the average duration of the
infection.

THE MATHEMATICAL MODELING OF EPIDEMICS

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Assume that the number of offspring produced per individual per unit time is a constant $b > 0$. Similarly assume that the death rate (number of deaths per unit time per individual) is a constant $d > 0$. $x(t + \Delta t) = x(t) + bx \Delta t - dx \Delta t$ Divide by Δt and take the limit as $\Delta t \rightarrow 0$. $\frac{dx}{dt} = (b - d)x = rx$ where $r = b - d$: Solution is $x(t) = x_0 e^{rt}$.

Part II Mathematical Biology - Lent 2017

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Range of X depends on θ , n , and N $k \leq n$ and $k \leq N\theta$ ($n - k \leq n$ and $(n - k) \leq N(1 - \theta) \Rightarrow \max(0, n - N(1 - \theta)) \leq k \leq \min(n, N\theta)$. $X \sim \text{Hypergeometric}(N\theta, N, n)$. $\hat{\theta}$.

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Models Time Series Models. Statistical Models:
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Preface What follows are my lecture notes for Math 4333: Mathematical Biology, taught at the Hong Kong University of Science and Technology. This applied mathematics course is primarily for final year mathematics major and minor students. Other students are also welcome to enroll, but must have the necessary mathematical skills.

Mathematical Biology - Department of Mathematics,
HKUST

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