

Solutions Manual for An Introduction to Mathematic: Biology 1e Linda Allen (All Chapters)

Answers to Selected Exercises and Supplementary Exercises

Chapter 1 Answers (* denotes supplementary exercises)

- 1 (b) first, nonlinear, autonomous
(d) second, nonlinear, nonautonomous
- 3 (b) $x_t = c_1 + c_2(-1)^t + c_3(-5)^t$
(d) $x_t = \left(\frac{2\sqrt{3}}{3}\right)^t \left[c_1 \sin\left(\frac{\pi t}{6}\right) + c_2 \cos\left(\frac{\pi t}{6}\right) \right]$
- 4 (a) Solution to 3 (d) $x_t = \left(\frac{2\sqrt{3}}{3}\right)^t \sqrt{3} \sin\left(\frac{\pi t}{6}\right)$
(b) Solution to 3 (b) $x_t = \frac{5}{12} + \frac{5}{8}(-1)^{t+1} + \frac{5}{24}(-5)^t$
- 5 (b) $x_t = c_1 2^t + c_2(-2)^t - 1 - 2t$
(d)* Solve $x_{t+1} - 5x_t = 5^{t+1}$. Solution: $x_t = c_1 5^t + t5^t$
(e)* Solve $x_{t+1} - x_t = 1 - 4t$
- 7 (a) $x_t = \frac{1}{\sqrt{5}}\lambda_1^{t+1} - \frac{1}{\sqrt{5}}\lambda_2^{t+1}$, where λ_1 and λ_2 are the roots of the characteristic equation, $\lambda_1 > \lambda_2$.
(b) Using the solution in (a) and the fact that $\lambda_1 > |\lambda_2|$ leads to $\lim_{t \rightarrow \infty} \frac{x_{t+1}}{x_t} = \lambda_1$.
(c)* Find the number of pairs of rabbits after one year ($t = 12$); after 5 years. The circumference of the earth is 24,902 miles. If the pairs of rabbits are lined end to end and they measure one foot in length, then, after 5 years, the pairs of rabbits would encircle the earth about 19,050 times.
- 8 Find the general solution, $x_t = c_1 \lambda_1^t + c_2 \lambda_2^t$, where $\lambda_1 > |\lambda_2|$. Then show x_{t+1}/x_t approaches λ_1 as $t \rightarrow \infty$.
- 10 (2) $Y(t+1) = BY(t)$, where $B = \begin{pmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ -b & 0 & -a & 0 \end{pmatrix}$. Show $\det(B - \lambda I) = \lambda^4 + a\lambda^2 + b$.

Course In Mathematical Biology Solutions Manual

Michael Brown



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Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition 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 equations chaos iterated maps period doubling renormalization fractals and strange attractors

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