Reading materials

What is Epidemic

1. Epidemic: Link
2. Timeline of the 2019-20 Wuhan coronavirus outbreak: Link

R-nought (R_0)

1. Understanding R nought: Link
2. What Is R0?: Gauging Contagious Infections Link
3. Notes on R0 (Part 1): Link

Case Fatality Ratio (CFR)

1. Case fatality rate | epidemiology: Link
2. A deadly disease: measuring case fatality rates: Link

Mathematics

1. Exponential growth functions: Link
2. What is the meaning of First Order Derivative (optional): Link

Compartmental models

SIR model

1. Intro to SIR model: Link
2. SIR Example Part 1: Link
3. SIR Example Part 2: Link
4. Discrete SIR infectious disease model, part 1: Link
5. Discrete SIR infectious disease model, part 2: Link
6. SIR Model of an Epidemic: Link
7. Notes on R0 (Part 2): Link

SI model (optional)

1. Model of an infectious disease without immunity: Link
2. Analysis of a model of an infectious disease without immunity: Link

IDEA model

1. Early Tranimissibility Assessment of Wuhan virus: Link
2. An IDEA for Short Term Outbreak Projection: Link