Equations to model susceptible, exposed, infected, and recovered populations:

Differential equations:

Solutions (discrete time intervals):

Definition of Constants:

Estimation/Prediction of Constants:

All equations derived from Zhou Tanga et al, 2020 (Prediction of New Coronavirus Infection Based on a Modified SEIR Model).

<https://www.medrxiv.org/content/10.1101/2020.03.03.20030858v1.full.pdf>