

**MATHEMATICS OF THE
TRANSMISSION DYNAMICS AND CONTROL
OF THE 2019 NOVEL CORONAVIRUS**

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- [1] L. EDELSTEIN-KESHET, *Mathematical models in biology*, Random House/Birkhäuser Mathematics Series, Random House, New York, NY, 1988, ISBN 0-394-35507-5; Reprinted with errata and a guide to more recent literature in Classics in Applied Mathematics **46**, by the Society for Industrial and Applied Mathematics, Philadelphia, PA, 2005, ISBN 978-0-89871-554-5; 978-0-89871-914-7. MR 1010228. Zbl 1100.92001. doi: 10.1137/1.9780898719147.
- [2] S. E. EIKENBERRY, M. MANCUSO, E. IBOI, T. PHAN, K. EIKENBERRY, Y. KUANG, E. KOSTELICH, and A. B. GUMEL, To mask or not to mask: modeling the potential for face mask use by the general public to curtail the covid-19 pandemic, *Infectious Disease Modelling* **5** (2020), 293–308. doi: 10.1016/j.idm.2020.04.001.
- [3] M. MARTCHEVA, *An introduction to mathematical epidemiology*, Texts in Applied Mathematics **61**, Springer, New York, NY, 2015, ISBN 978-1-4899-7611-6; 978-1-4899-7612-3. MR 3409181. Zbl 1333.92006. doi: 10.1007/978-1-4899-7612-3.
- [4] C. N. NGONGHALA, E. IBOI, S. EIKENBERRY, M. SCOTCH, C. R. MACINTYRE, M. H. BONDS, and A. B. GUMEL, Mathematical assessment of the impact of non-pharmaceutical interventions on curtailing the 2019 novel Coronavirus, *Math. Biosci.* **325** (2020), Article 108364. MR 4097986. doi: 10.1016/j.mbs.2020.108364.
- [5] L. PERKO, *Differential equations and dynamical systems*, 3rd ed., Texts in Applied Mathematics **7**, Springer, New York, NY, 2001, ISBN 0-387-95116-4. MR 1801796. Zbl 0973.34001. doi: 10.1007/978-1-4613-0003-8.
- [6] S. H. STROGATZ, *Nonlinear dynamics and chaos: with applications to physics, biology, chemistry, and engineering*, 2nd ed., Westview Press, Boulder, CO, 2015, Reprinted by CRC Press, Boca Raton, FL, 2018, ISBN 978-0-8133-4910-7. MR 3837141. Zbl 1343.37001. doi: 10.1201/9780429399640.
- [7] S. WIGGINS, *Introduction to applied nonlinear dynamical systems and chaos*, 2nd ed., Texts in Applied Mathematics **2**, Springer, New York, NY, 2003, ISBN 0-387-00177-8. MR 2004534. Zbl 1027.37002. doi: 10.1007/b97481.

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Bibliography by Abba Gumel.