

DAFTAR PUSTAKA

- Alrabaiah, H., dkk, 2020, Optimal control analysis of hepatitis B virus with treatment and vaccination, *Results in Physics*, 19, 1-16.
- Anton, H. dan Rorres, C., 2013, *Elementary Linear Algebra: Applications Version, Eleven Edition*, John Wiley and Sons, Inc., New York.
- Boyd, S., 2008, *Basic Lyapunov Theory*, Stanford University, Stanford.
- Diekmann, O., Hessterbeek, J. A. P., dan Metz, J. A. J., 1990 , On the definition and the computation of the basic reproduction ratio R_0 in models for infectious diseases in heterogeneous populations, *Journal of Mathematical Biology*, 28, 365-382.
- Goentoro, P. L., 2021, *Hepatitis B*, <https://hellosehat.com>, diakses tanggal 31 Oktober 2021.
- Haddad, W.M., Chellaboina, V., dan Hui, Q., 2010, *Nonnegative and Compartmental Dynamical Systems*, Princeton University Press, Princeton.
- Kementrian Kesehatan Republik Indonesia, 2016, *Hepatitis B*, <https://promkes.kemkes.go.id>, diakses tanggal 31 Oktober 2021.
- Khan, M. A., dkk, 2018, Control Strategies of Hepatitis B with Three Control Variables, *Journal of Biological Systems*, 26 (1), 1-21.
- Khan, M. A., dkk, 2020, Optimal Control Analysis of The Effect of Treatment, Isolation and Vaccination on Hepatitis B Virus, *Journal of Biological Systems*, 28 (2), 1-26.
- Khan, T., Zaman, G., dan Chohan, M.I., 2017, The Transmission Dynamic and Optimal Control of Acute and Chronic Hepatitis B, *Journal of Biological Dynamics*, 11, 172-189.



- Lewis, F. L., Vrabie, D. L., dan Syrmos, V. L., 2012, *Optimal Control, Third Edition*, John Wiley and Sons, Inc., Hoboken, New Jersey.
- Martcheva, M., 2015, *An Introduction to Mathematical Epidemiology*, Springer, New York.
- Medley, G. F., 2001, Hepatitis-B Virus Endemicity: Heterogeneity, Catastrophic Dynamics and Control, *Nature Publishing Group*, 7, 619-624.
- Milev, M., 2013, *Properties and Application of M-Matrices*, University of Food Technology, Bulgaria.
- Naidu, D.S., 2002, *Optimal Control System*, CRC Press, New York.
- Olsder, G. J., dan Woude, 1997, *Mathematical systems theory*, Delft University Press, Delft.
- Perko, L., 2001, *Differential Equations and Dynamical System, Third Edition*, Springer, New York.
- Plemmons, R.J., 1977, M-matrix characterizations. I-nonsingular M-matrices, *Linear Algebra and Its Applications*, 18, 175-188.
- Qu, Z., 2009, *Cooperative Control of Dynamical Systems, Application to Autonomous Vehicles*, Springer-Verlag, London.
- Ross, S. L., 1984, *Differential Equations, Third Edition*, John Wiley and Sons, Inc., New York.
- Taylor, A. E. dan Mann, W. R., 1983, *Advanced Calculus, Third Edition*, John Wiley and Sons, Inc., New York.
- Van den Driessche, P. dan Watmough, J., 2002, Reproduction Numbers and Sub-Threshold Endemic Equilibria for Compartmental Models of Disease Transmission, *Mathematical Biosciences*, 180, 29-48.
- Wiggins, S., 2003, *Introduction to Applied Nonlinear Dynamical Systems and Chaos Second Edition*, Springer-Verlag, New York.



World Health Organization (WHO), 2021, *Hepatitis B fact sheet*, <https://www.who.int/news-room/fact-sheets/detail/hepatitis-b>. Diakses tanggal 31 Oktober 2021.

Zada, I., dkk, 2021, Mathematical Analysis of Hepatitis B Epidemic Model with Optimal Control, *Advances in Difference Equations*, 1, 1-21.

Zou, L., Zhang, W., dan Ruan, S., 2010, Modeling the transmission dynamics and control of hepatitis B virus in China, *Jurnal of Theoretical Biology*, 262, 330-338.