

DAFTAR PUSTAKA

- [1] I. Adelopo, N. Vichou, and K. Y. Cheung, “Capital, liquidity, and profitability in european banks,” *Journal of Corporate Accounting & Finance*, vol. 33, no. 1, pp. 23–35, 2022.
- [2] B. Casu, F. di Pietro, and A. Trujillo-Ponce, “Liquidity creation and bank capital,” *Journal of Financial Services Research*, vol. 56, no. 3, pp. 307–340, 2019.
- [3] J. Bianchi and S. Bigio, “Banks, liquidity management, and monetary policy,” Federal Reserve Bank of Minneapolis, Staff Report 503, Sep. 2017, revised September 2017. [Online]. Available: <https://www.minneapolisfed.org/research/staff-reports/banks-liquidity-management-and-monetary-policy>
- [4] X. Freixas, B. M. Parigi, and J.-C. Rochet, “Systemic risk, interbank relations, and liquidity provision by the central bank,” *Journal of Money, Credit and Banking*, vol. 32, no. 3, pp. 611–638, 2000.
- [5] Basel Committee on Banking Supervision, “Evaluation of the impact and efficacy of the basel iii reforms,” Bank for International Settlements, Basel, Switzerland, Report, Dec. 2022. [Online]. Available: <https://www.bis.org/bcbs/publ/d551.htm>
- [6] A. V. Thakor, “Bank capital and financial stability: An economic tradeoff or a faustian bargain?” *Annual Review of Financial Economics*, vol. 6, no. 1, pp. 185–223, 2013.
- [7] M. F. Ansori, K. A. Sidarto, and N. Sumarti, “Model of deposit and loan of a bank using spiral optimization algorithm,” *Journal of the Indonesian Mathematical Society*, vol. 25, no. 3, pp. 292–301, 2019.
- [8] M. F. Ansori, K. A. Sidarto, N. Sumarti, and I. Gunadi, “Dynamics of bank’s balance sheet: A system of deterministic and stochastic differential equations approach,” *International Journal of Mathematics and Computer Science*, vol. 16, no. 3, pp. 871–884, 2021.
- [9] A. Vincent and N. Sumarti, “Implementation of the banking dynamics model using a system of deterministic differential equations,” *Frontiers in Applied Mathematics and Statistics*, vol. 11, p. 1517447, 2025.
- [10] M. F. Ansori, K. A. Sidarto, N. Sumarti, and I. Gunadi, “On the estimation of logistic models with banking data using particle swarm optimization,” *Algorithms*, vol. 17, no. 11, p. 507, 2024.
- [11] M. F. Ansori, N. Sumarti, K. A. Sidarto, I. Gunadi, and F. H. Gümüş, “Mathematical model of bank balance sheet with a macroprudential instrument and

its application to banking data,” *Mathematical Methods in the Applied Sciences*, 2025.

- [12] M. F. Ansori, S. Brianzoni, and G. Campisi, “Bifurcations and complex dynamics in a banking duopoly model with macroprudential policy,” *Physica A: Statistical Mechanics and its Applications*, vol. 641, p. 129730, 2024.
- [13] M. F. Ansori, N. Sumarti, K. A. Sidarto, and I. Gunadi, “An algorithm for simulating the banking network system and its application for analyzing macroprudential policy,” *Computer Research and Modeling*, vol. 13, no. 6, pp. 1275–1289, 2021.
- [14] M. F. Ansori, “Dynamic modeling and optimal control of bank balance sheets under capital adequacy constraints,” *An International Journal of Optimization and Control: Theories & Applications*, vol. 16, no. 1, pp. 40–53, 2026.
- [15] A. V. Dmitruk and A. M. Kaganovich, “Maximum principle for optimal control problems with intermediate constraints,” *Computational Mathematics and Modeling*, vol. 22, no. 2, pp. 180–215, 2011.
- [16] “Undang-undang republik indonesia nomor 10 tahun 1998 tentang perubahan atas undang-undang nomor 7 tahun 1992 tentang perbankan,” 1998.
- [17] N. Sumarti and M. F. Ansori, *Model Matematika Perbankan*, 1st ed. Bandung, Indonesia: ITB Press, 2022.
- [18] Dewan Standar Akuntansi Keuangan Ikatan Akuntan Indonesia, “Kerangka konseptual pelaporan keuangan,” Jakarta, 2019.
- [19] “Peraturan otoritas jasa keuangan nomor 11/pojk.03/2016 tentang kewajiban penyediaan modal minimum bank umum,” 2016.
- [20] Kartono, *Persamaan Deferenensial Biasa: Model Matematika Fenomena Perubahan*. Yogyakarta: Graha Ilmu, 2012.
- [21] J. K. Hedrick and A. Girard, “Control of nonlinear dynamic systems,” Dec. 2015, draft lecture notes.
- [22] B. Girol, “Dynamical systems, invariance conditions and applications,” Master’s Thesis, FernUniversität in Hagen, Hagen, Germany, Mar. 2020.
- [23] A. Goriely and C. Hyde, “Finite-time blow-up in dynamical systems,” *Physics Letters A*, vol. 250, no. 4–6, pp. 311–318, 1998.
- [24] Widowati and Sutimin, *Pemodelan Matematika: Analisis dan Aplikasinya*. Semarang: Undip Press, 2013.

- [25] M. W. Hirsch, S. Smale, and R. L. Devaney, *Differential Equations, Dynamical Systems, and an Introduction to Chaos*, 3rd ed. Academic Press, 2013.
- [26] L. Perko, *Differential Equations and Dynamical Systems*, 3rd ed., ser. Texts in Applied Mathematics. New York: Springer-Verlag, 2001, vol. 7.
- [27] S. Díaz-Seoane, A. B. Blas, and A. F. Villaverde, “Controllability and accessibility analysis of nonlinear biosystems,” *Computer Methods and Programs in Biomedicine*, vol. 242, p. 107837, 2023.
- [28] Y. Wulandari, M. Kiftiah, and Yudhi, “Kontrol optimal model mangsa pemangsa dengan pertahanan pada mangsa,” *Buletin Ilmiah Matematika, Statistika dan Terapannya (Bimaster)*, vol. 11, no. 3, pp. 551–560, 2022.
- [29] W. H. Fleming and R. W. Rishel, *Deterministic and Stochastic Optimal Control*. New York: Springer-Verlag, 1975.
- [30] S. Lenhart and J. T. Workman, *Optimal Control Applied to Biological Models*, ser. Mathematical and Computational Biology Series. Boca Raton, FL: Chapman & Hall/CRC, 2007.
- [31] M. A. Islam, “Accurate solutions of initial value problems for ordinary differential equations with the fourth order runge kutta method,” *Journal of Mathematics Research*, vol. 7, no. 3, pp. 41–45, 2015.