

DAFTAR PUSTAKA

- [1] John Charles Butcher. *Numerical methods for ordinary differential equations*. John Wiley & Sons, 2016.
- [2] Maziar Raissi, Paris Perdikaris, and George E. Karniadakis. Physics-informed neural networks: A deep learning framework for solving forward and inverse problems involving nonlinear partial differential equations. *Journal of Computational Physics*, 378:686–707, February 2019.
- [3] Lu Lu, Xuhui Meng, Zhiping Mao, and George Em Karniadakis. Deepxde: A deep learning library for solving differential equations. *SIAM review*, 63(1):208–228, 2021.
- [4] Kevin Gurney. *An Introduction to Neural Networks*. CRC Press, 1997.
- [5] Salvatore Cuomo, Vittorio S. Di Cola, Fabio Giampaolo, Gianluigi Rozza, Maziar Raissi, and Francesco Piccialli. Scientific machine learning through physics-informed neural networks: Where we are and what’s next. *Journal of Scientific Computing*, 92(3):88, 2022.
- [6] Atılım Güneş Baydin, Barak A. Pearlmutter, Alexey Andreyevich Radul, and Jeffrey Mark Siskind. Automatic differentiation in machine learning: a survey. *Journal of Machine Learning Research*, 18:1–43, April 2018.
- [7] Tianfeng Chai and Roland R Draxler. Root mean square error (rmse) or mean absolute error (mae)?—arguments against avoiding rmse in the literature. *Geoscientific Model Development*, 7(3):1247–1250, 2014.
- [8] Cort J Willmott and Kenji Matsuura. Advantages of the mean absolute error (mae) over the root mean square error (rmse) in assessing average model performance. *Climate Research*, 30(1):79–82, 2005.
- [9] Jason Matthews and Alex Bihlo. Pinnde: Physics-informed neural networks for solving differential equations, August 2024.
- [10] PyTorch Team. Pytorch autograd documentation. <https://pytorch.org/docs/stable/autograd.html>, 2024.
- [11] Pauli Virtanen, Ralf Gommers, Travis E Oliphant, Matt Haberland, Tyler Reddy, David Cournapeau, Evgeni Burovski, Pearu Peterson, Warren Weckesser, Jonathan Bright, et al. Scipy 1.0: fundamental algorithms for scientific computing in python. *Nature Methods*, 17(3):261–272, 2020.

- [12] Charles R. Harris et al. Array programming with NumPy. *Nature*, 585(7825):357–362, September 2020.
- [13] J. D. Hunter. Matplotlib: A 2D graphics environment. *Computing in Science & Engineering*, 9(3):90–95, 2007.

