

DAFTAR PUSTAKA

- [1] Ablowitz, M.J., dan Ladik, J.F. (1976): Nonlinear differential-difference equations. *J. Math. Phys.* **16**: 598.
- [2] Ablowitz, M.J., dan Musslimani, Z.H. (2014): Integrable discrete PT symmetric model. *Phys. Rev. E* **90**: 1032912.
- [3] Aceves, et. al. (1996): Discrete self-trapping, solitons interactions, and beam steering in nonlinear waveguide arrays. *Phys. Rev. E* **53**: 1172.
- [4] Asfa, R., Azadi, A. F., Netris, Z.P., dan Syafwan, M. (2018): Aproksimasi Variasional untuk Soliton Onsite pada Persamaan Schrödinger Nonlinier Diskrit Kubik-Kuintik. *J. Math. and Its Appl.* **Vol. 15, No. 2**: 113-126.
- [5] Azadi, A. F., Syafwan, M., Nazra, A., Azfa, R., dan Netris, Z. P. (2019): Variational Approximations for Intersite Soliton in a Ablowitz-Ladik-Cubic Discrete Nonlinear Schrödinger Equation. in International Conference on Basic Sciences and Its Applications, KnE Engineering, pages 1-11.
- [6] Boyce, W. E dan DiPrima, R.C. (2001): *Elementary Differential Equations and Boundary Value Problems*. John Wiley Sons., New York.
- [7] Butcher, J.C. (1996): A history of Runge-Kutta methods. *Applied Numerical Mathematics*. **20**: 247-260.
- [8] Cassel, W. K. (2013). *Variational methods with applications in science and engineering*. Cambridge University Press., New York.

- [9] Chapra, S.C. (2012). *Applied Numerical Methods with Matlab for Engineers and Scientists Third Edition*. McGraw-Hill, Inc., New York.
- [10] Chong, C., Pelinovsky, D.E., dan Schneider, G. (2012): On the validity of the variational approximation in discrete nonlinear Schrödinger equations. *Physica D*: 115-124.
- [11] Chong, C., Pelinovsky, D.E., dan Schneider, G. (2011): Variational approximation of bifurcation of asymmetric solitons in cubic quintic nonlinear Schrödinger lattice. *Discrete and Continuous Dynamical Systems Series S*: 1019-1031.
- [12] Christodoulides, D.N., dan Joseph, R.I. (2003): Discrete self-focussing in nonlinear arrays of coupled waveguides. *Opt. Lett.* **13**: 794.
- [13] Cuevas, J., James, G., Kevrekidis, P.G., Malomed, B.A., dan Sánchez-Rey, B. (2008): Approximation of solitons in the discrete NLS equation. *J. Nonlinear Math., Phys.* **15**: 124.
- [14] Eisenberg, H.S., Silverberg, Y., Morandotti, R., Boyd, A.R., dan Aitchison, J.S. (2000): Diffraction Management. *Phys. Rev. Lett.* **85**: 1863.
- [15] Eisenberg, H.S., Silberberg, Y., Morandotti, R., Boyd, A.R., dan Aitchison, J.S. (1998): Discrete Spatial Optical Solitons in Waveguide Arrays *Phys. Rev. Lett.* **81**: 3383.
- [16] Gardner, C.S., Greene, J.M., Kruskal, D.M., dan Miura, R.M. (1967): Method for solving the Korteweg-deVries equation. *Phys. Rev. Lett.* **19**: 1095.

- [17] González, R.C., Talle, J.D., Chong, C., dan Malomed, B.A. (2006): Multi-stable solitons in the cubicquintic discrete nonlinear Schrödinger equation. *Physica D*. **216**: 77-89.
- [18] Graham, W. G., and William, E. S. (2010). *Traveling Wave Analysis of Partial Differential Equations*. Elsevier., London.
- [19] Kaup, D.J. (2005): Variational solutions for the discrete nonlinear Schrödinger equation. *Math. Comput. Simulat.* **69**: 322.
- [20] Kevrekidis, P.G. (2009). *Discrete Nonlinear Schrödinger Equation: Mathematical Analysis, Numerical Computations and Physical Perspectives*. Springer., Berlin.
- [21] Kot, M. (2000). *A First Course in the Calculus of Variations*. American Mathematical Society., Rhode Island.
- [22] Kreyszig, E. (1978). *Introductory Functional Analysis with Applications*. John Wiley & Sons, Inc., USA.
- [23] Malomed, B.A., (2002): Variational Methods in Nonlinear Fiber Optics and Related Fields. *Prog. Opt.* **43**: 69.
- [24] MacKay, R.S., dan Aubry, S. (1994): Proof of existence of breathers for time-reversible or Hamiltonian networks of weakly coupled oscillators. *Nonlinearity*. **7**: 1623-1643.
- [25] Matthews, J.H., dan Fink, K.D. (1999). *Numerical Methods Using Matlab*. Prentice Hall., Upper Saddle River.
- [26] Olsder, G.J. (1994). *Mathematical System Theory*. Delft University Press, Delft.

- [27] Putra, G., Syafwan, M., dan Susanto, H. (2016). Aproksimasi Variasional untuk solusi soliton pada persamaan Schrödinger nonlinier diskrit nonlokal. *Jurnal Matematika Unand.* Vol. 5 No. 3: 40-46.
- [28] Putra, G., Syafwan, M., dan Haripamyu. (2020). The existence and stability of onsite solitons in a discrete nonlinear nonlocal Schrödinger equation. *J.Phys. Conf. Ser.* **1554**: 012046.
- [29] Rusin, R., Kusdiantara, R., dan Susanto, H. (2018). Variational approximations using Gaussian ansatz, false instability, and its remedy in nonlinear Schrödinger lattices. *Phys. Rev. E.* **87**: 063202.
- [30] Sarma, K.A., Miri, M.A., Musslimani, Z.H., dan Christodoulides, N.D. (2014): Continuous and discrete Schrödinger systems with parity-time-symmetric nonlinearities. *Phys. Rev. E.* **89**: 052918.
- [31] Scott, A. (2003). *Nonlinear Science: Emergence and Dynamics of Coherent Structure*. Oxford University Press., Oxford.
- [32] Scott, A. (2005). *Encyclopedia of Nonlinear Science*. Routledge., New York and London.
- [33] Susanto, H., Hoq, Q.E., dan Kevrekidis, P.G. (2006): Stability of discrete solitons in the presence of parametric driving. *Phys. Rev. E.* **74**: 067601.
- [34] Syafwan, M., Susanto, H., dan Cox, S.M. (2010): Discrete solitons in electromechanical resonators. *Phys. Rev. E.* **81**: 026207.
- [35] Wazwaz, A. M. (2009). *Partial Differential Equations and Solitary Waves Theory*. Springer., Berlin Heidelberg.