



Research Article

## Title of Manuscript

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## Article Info

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*Proof.* Your proof. Please do not use the quantifiers  $\forall, \exists$  as abbreviations, i.e., use them only in the papers from formal logics. The symbol for the end of the proof will appear automatically. □

For displayed equations (formulas) you may use

$$e^{i\pi} = -1 \quad (1.1)$$

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0.3	4.497 e-9	1.04070 e-10	5.93744 e-12	6.38417 e-15	4.53581E-6
0.2	3.8574 e-11	3.13685 e-12	2.31892 e-13	5.12340 e-16	1.32679E-7
0.2	6.5129 e-12	1.90014 e-12	1.48048 e-14	4.40110 e-17	9.91385E-8

**Table 1.1:** Bla bla bla



**Figure 1.1:** Journal of mathematical sciences and modelling

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## Article Information

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## References

- [1] M. Bohner, A. Peterson, (Eds.), *Advances in Dynamic Equations on Time Scales*, Birkhäuser, Boston, 2003.
- [2] C. Niclescu, L. E. Persson, *Convex Functions and Their Applications*, Vol. 23, Springer, New York, 2006.
- [3] R. Bölling, Karl Weierstrass and some basic notions of the calculus, In: *The Second W. Killing and K. Weierstraß Colloquium*, Braniewo (Poland), March 2010, pp. 24–26.
- [4] E. Kropat, G. W. Weber, S. Z. Alparslan-Gök, et al., Inverse problems in complex multi-modal regulatory networks based on uncertain clustered data, In A. A. Pinto, D. Zilberman (Eds.), *Modeling, Dynamics, Optimization and Bioeconomics I*, Springer International Publishing, 2014, pp. 437–451.
- [5] S. Sadiq Basha, N. Shahzad, R. Jeyaraj, *Optimal approximate solutions of fixed point equations*, Abstr. Appl. Anal., **2011** (2011), Article ID 174560, 9 pages. <https://doi.org/10.1155/2011/174560>
- [6] M. I. Gil', *On stability of linear Barbashin type integro-differential equations*, Math. Probl. Eng., (2015), Article ID 962565, 5 pages. <https://doi.org/10.1155/2015/962565>
- [7] E. E. Kara, *On matrix transformations between some sequence spaces and the hausdorff measure of noncompactness*, Ph.D. Thesis, Sakarya University, 2012.
- [8] K. G. Tay, S. L. Kek, *Approximating the smallest eigenvalue using inverse method through spreadsheet Excel*, Proceeding of the 17th National Symposium on Mathematical Science (SKSM 2009), (2009), 653–658.
- [9] M. Akyigit, H. H. Kosal, M. Tosun *Split Fibonacci quaternions*, Adv. App. Clifford Alg., **23** (2013), 535–545. <https://doi.org/10.1007/s00006-013-0401-9>
- [10] R. J. Greechie, S. P. Gudder, *Quantum logics*, In C. A. Hooker (Ed.), *Contemporary Research in the Foundations and Philosophy of Quantum Theory*, Reidel, Dordrecht, 1973, pp. 143–173.
- [11] A. N. Kochubei, *Extensions of symmetric operators and symmetric binary relations*, Mat. Zametki, **17** (1975), 25–28.
- [12] R. Lopez, *Differential Geometry of curves and surfaces in Lorentz-Minkowski space*, Int. Electron. J. Geom., **7**(1) (2008), 44–107. <https://doi.org/10.36890/iejg.594497>
- [13] J. Trzeciak, *Mathematical English Usage. A Dictionary*. Available at: <https://www.emis.de/monographs/Trzeciak/>. Accessed February 11, 2025.
- [14] J. Amendt, C. S. Richards, C. P. Campobasso, et al., *Best practice in forensic entomology – standards and guidelines*, Int. J. Legal Med., **125**(6) (2011), 777–782. Available at: <https://pubmed.ncbi.nlm.nih.gov/16633812/>. Accessed September 10, 2024.
- [15] M. Y. Li, *An Introduction to Mathematical Modeling of Infectious Diseases*, Springer Cham, 2018. <https://doi.org/10.1007/978-3-319-72122-4>
- [16] Turkish Statistical Institute, *Address-based population registration system results database*, (2022). Available at: <https://data.tuik.gov.tr/Bulten/Index?p=The-Results-of-Address-Based-Population-Registration-System-2022-49685&dil=2>. Accessed September 10, 2024.
- [17] Y. Fang, K. Fatahiyev, L. Wang, et al., *Improving the genetic-algorithm-optimized wavelet neural network for stock market prediction*, In 2014 International joint conference on neural networks (IJCNN), (2014), 3038–3042. <https://doi.org/10.1109/IJCNN.2014.6889969>