

# Communications in Advanced Mathematical Sciences ISSN (Online) 2651-4001

Vol. x, No. x, xx-xx, 202x

https://doi.org/10.33434/cams.xxxxxx

**Research Article** 



## **Title of Manuscript**

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#### **Abstract**

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<sup>1</sup> Department of Mathematics, Düzce University, Düzce, Türkiye, xxxxx@xx.xx ROR

<sup>2</sup> Department of Mathematics, Düzce University, Düzce, Türkiye, xxxxx@xx.xx ROR

\*Corresponding author

Received: xx Month 202x, Accepted: xx Month 202x, Available online: xx Month 202x

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$$e^{i\pi} = -1 \tag{1.1}$$

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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. Communications in advanced mathematical sciences

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### **Article Information**

**Acknowledgements:** The authors would like to express their sincere thanks to the editor and the anonymous reviewers for their helpful comments and suggestions.

Author's Contributions: The parts contributed by each author should be written in detail.

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## References

- [1] M. Bohner, A. Peterson, (Eds.), Advances in Dynamic Equations on Time Scales, Birkhäuser, Boston, 2003.
- [2] C. Niculescu, 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.
- <sup>[4]</sup> E. Kropat, G. W. Weber, S. Z. Alparslan-Gok, 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.
- 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

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.