

Personal Information:

Name: Tarek Adel Khalil

Date of birth: 18/6/1989

Position: Lecturer

Department: Basic science

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Educational Background:

- Doctor of Philosophy In Engineering Mathematics Ain Shams University, Faculty of Engineering, March 2024.
- Master of science in Engineering Mathematics Ain Shams University, Faculty of Engineering, July 2017.
- Bachelor of science in Electrical Engineering (Communication) The Higher Institute of Engineering & Technology, 5th settlement New Cairo Academy, May 2011.

List of Publications:

- 1) Optimal Solution of Multi-Choice Mathematical Programming Problem Using a New Technique. American Journal of Operations Research, (2016); 6, 167-172. (DOI: 10.4236/ajor.2016.62019)
- 2) Tarek A. Khalil, Niveen Badra, Hamdy M. Ahmed, Wafaa B. Rabie. "Optical solitons and other solutions for coupled system of nonlinear Biswas-Milovic equation with Kudryashov's law of refractive index by Jacobi elliptic function expansion method". Optik. (2022);253,168540. (DOI: 10.1016/j.ijleo.2021.168540) .
(Elsevier, Impact factor: 3.1, Q2)
- 3) Tarek A. Khalil, Niveen Badra, Hamdy M. Ahmed, Wafaa B. Rabie. "Bright solitons for twin-core couplers and multiple-core couplers having polynomial law of nonlinearity using Jacobi elliptic function expansion method". Alexandria Engineering Journal. (2022); 61(12), 11925-11934. (DOI: 10.1016/j.aej.2022.05.042) .
(Elsevier, Impact factor: 6.8, Q1)
- 4) Wafaa B. Rabie, Tarek A. Khalil, Niveen Badra, M. S. Hashemi, Hamdy M. Ahmed, M. Mirzazadeh. "Diverse new solitons and other exact solutions for concatenation model using modified extended mapping method". Opt. Quant Electron.(2023); 55, 952 . (DOI: 10.1007/s11082-023-05116-w) .
(Springer, Impact factor: 3, Q2)

- 5) Wafaa B. Rabie , Tarek A. Khalil , Niveen Badra, Hamdy M. Ahmed, M. Mirzazadeh, M. S. Hashemi “Soliton solutions and other solutions to the (4+1)-dimensional Davey-Stewartson-Kadomtsev-Petviashvili equation using modified extended mapping method”. Qual. Theory Dyn. Syst. 23, 87 (2024). (DOI: 10.1007/s12346-023-00944-3)
(Springer, Impact factor: 1.4, Q2)
- 6) Karim K. Ahmed, Hamdy M. Ahmed, Mohammed F. Shehab, Tarek A. Khalil, Homan Emadifar, Wafaa B. Rabie. “Characterizing stochastic solitons behaviour in (3+1) dimensional Schrödinger equation with Cubic-Quintic nonlinearity using improved modified extended tanh-function scheme”. Volume 21, December 2024, 100233.
(<https://doi.org/10.1016/j.physo.2024.100233>)
(Elsevier, Impact factor: 1.5, Q3)

Professional Experience:

- ❖ Mathematics Lecture at The Higher Institute of Engineering & Technology, 5th Settlement (N.C.A) from April 2024 till Now.
- ❖ Mathematics Teacher assistant at The Higher Institute of Engineering & Technology, 5th Settlement (N.C.A) from October 2023 till April 2024.
- ❖ Mathematics Teacher assistant at Heliopolis University for Sustainable Development from May 2021 till January 2023.
- ❖ Mathematics Teacher assistant at The Higher Institute of Engineering & Technology, 5th Settlement (N.C.A) from September 2013 till May 2021.

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