

**1. Name: Eman Hemdan Mosad Abdullah**, Teaching assistant, Department of Engineering mathematics and physics, Higher Institute of Engineering, Elshorouk Academy.

**2. Degrees:**

- B.S. (Mathematics) Faculty of science, Al-Azhar University, Cairo, Egypt. 2021
- M.S. (Pure Mathematics) Al-Azhar University, Cairo, Egypt. 2024

**3. Years of Service on Faculty: 3**

- 02/2022 - present Teaching Assistant.

**4. Other Experience:**

- 2/2022 present: Teaching assistant of Mathematics (Elshorouk Academy), Cairo, Egypt.
- 10/2021 – 02/2022: Teaching assistant of Mathematics (Faculty of Electronic Engineering), Menoufia University.

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- Menoufia, Egypt.

**7. Principal publications of last 5 years (selected):**

1- Eman H. M. Abdullah, Afaf A. S. Zaghrou, Hamdy M. Ahmed, Amal Ibrahim Ahmed Bahnasy, Wafaa B. Rabie. "Soliton dynamics and travelling wave solutions for highorder nonlinear Schrödinger equation in birefringent fibers using improved modified extended tanh function method", Optical and Quantum Electronics, (2024).

<https://doi.org/10.1007/s11082-024-06488-3>.

2-Eman H. M. Abdullah, Afaf A. S. Zaghrou, Hamdy M. Ahmed, Amal Ibrahim Ahmed Bahnasy, Wafaa B. Rabie. "Unveiling optical solitons in twin-core couplers with Kerr law of nonlinear refractive index using improved modified extended tanh function method", Journal of Optics, 2024. <https://doi.org/10.1007/s12596-024-01971-2>.