

1. Name: Ahmed H. Arnous, Associate Professor, Department of Engineering Mathematics and Physics, El Shorouk Academy, Egypt

2. Degrees:

- B.S. (Mathematics) Zagazig university, Egypt 2008
- M.S. (Mathematics) Zagazig university, Egypt 2014
- Ph.D. (Mathematics) Al Azhar university, Egypt 2017

3. Years of Service on Faculty: 7

- 2023 - Present Associate Professor
- 2017 - 2023 Assistant Professor

4. Other Experience:

- None

5. Consulting Activities (selected)

- None

6. States in which registered:

- Cairo, Egypt.

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

- A. H. Arnous, M. S. Hashemi, K. S. Nisar, M. Shakeel, J. Ahmad, I. Ahmad, R. Jan, A. Ali, M. Kapoor, et al., "Investigating solitary wave solutions with enhanced algebraic method for new extended Sakovich equations in fluid dynamics," *Results in Physics* **57**, 107369 (2024).
- S. T. R. Rizvi, S. Ghafoor, A. R. Seadawy, A. H. Arnous, H. A. Garalleh, and N. A. Shah, "Exploration of solitons and analytical solutions by sub-ODE and variational integrators to Klein-Gordon model," *AIMS Mathematics* **9**, 21144–21176 (2024).
- C. Bhan, R. Karwasra, S. Malik, S. Kumar, A. H. Arnous, N. A. Shah, and J. D. Chung, "Bifurcation, chaotic behavior and soliton solutions to the KP-BBM equation through new Kudryashov and generalized Arnous methods," *AIMS Mathematics* **9**, 8749–8767 (2024).
- A. H. Arnous, A. M. Elsherbeny, A. Secer, M. Ozisik, M. Bayram, N. A. Shah, and J. D. Chung, "Optical solitons for the dispersive concatenation model with spatio-temporal dispersion having multiplicative white noise," *Results in Physics* **56**, 107299 (2024).
- A. H. Arnous and L. Moraru, "Optical Solitons with the Complex Ginzburg–Landau Equation with Kudryashov’s Law of Refractive Index," *Mathematics* **10**, 3456 (2022).
- A. H. Arnous, "Optical solitons to the cubic quartic Bragg gratings with anti-cubic nonlinearity using new approach," *Optik* **251**, 168356 (2022).
- A. H. Arnous, "Optical solitons with Biswas–Milovic equation in magneto-optic waveguide having Kudryashov’s law of refractive index," *Optik* **247**, 167987 (2021).

- M. M. A. El-Sheikh, A. R. Seadawy, H. M. Ahmed, A. H. Arnous, and W. B. Rabie, “Dispersive and propagation of shallow water waves as a higher order nonlinear Boussinesq-like dynamical wave equations,” *Physica a Statistical Mechanics and Its Applications* **537**, 122662 (2020).

8. Scientific and professional societies of which a member

- Egyptian Mathematical Society
- Egyptian syndicate of scientific professions

9. Honors and awards:

- World’s top 2% scientists list by Stanford University, 2022, 2023.

10. Institutional & professional service in last 5 years:

- None

11. Professional Development Activities in the last 5 years:

Attendance and meeting the standards required for completion of a training course from FLDC in the following:

- Quality Standards in Teaching
- International Publishing of Scientific Research
- Essentials of Integrated Education
- Critical Thinking
- Exams and Student Evaluation Systems
- Fundamentals of Digital Transformation Certificate (FDTC)