

**Waleed Ezzat Raslan, Ph.D.**  
**Professor**



**Summary**

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- **Dr. Waleed Ezzat Raslan** is a professor of Mathematics and Engineering physics at Mansoura University, Egypt. He received his Ph.D. in Engineering Mathematics from Mansoura University. He has a B.Sc. in Communication Engineering and a M.Sc. in Engineering Mathematics from Mansoura University, in addition to several years of experience in teaching Mathematics .
- Strong research background. Authored and Co-authored more than 13 research papers. Published and presented in the reputed Scientific & Engineering Research journals.

**Education**

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**2010** : **Ph.D.** in Engineering Mathematics, Mansoura University, EGYPT. **Thesis:** “*On Some Problems in Fractional Calculus*”.

**2004** : **M.Sc.** in Engineering Mathematics, **Thesis:** “*Exact Solutions of Some Nonlinear Evolution Equations Using Reduction Methods*”, Mansoura University, EGYPT.

**1996** : **B.Sc.** in Communication Engineering, grade: **Very Good with Honor’s Degree.**

**Professional Experience**

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**2013 – Present:** **Associate Professor** – Basic science Department ,El Mansoura High Institute of Engineering and Technology, EGYPT. Duties include conducting research work, Head of Basic Science department El Mansoura High Institute for Engineering and Technology.and teaching the following graduate and undergraduate courses:

- Mathematics 1.
- Mathematics 2.
- Mathematics 3.
- Mathematics 4.
- Mechanics.
- Statistics and probability theory.

**2011 – 2013** : Director of the Center for the Study of Environmental Impact Assessment **in Mansoura University**

**2010 – 2013** : **Lecturer of Math.** in the Dept. Math. and Phys. Science, Faculty of Engineering, **Mansoura University.** teaching the following graduate and undergraduate courses:

- Mathematical Analysis.
- Functional Analysis.
- Differential and Integral Calculus.
- Differential Equations and its applications.
- Complex Analysis.
- Integral Equations.
- Special Functions and Partial Differential Equations.
- Linear Algebra.
- Probability and Statistics.
- Functions of Several Variables and Multiple integrals.
- Numerical methods

**2004 – 2010** : **Assistant lecturer** in the Dept. Math. and Phys. Science, Faculty of Engineering, **Mansoura University**

### **Professional Affiliations**

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- **Member** of the Egyptian Engineers Syndicate

### **Publications**

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#### **Text book**

Hany H. Sherief, A.M.A. El-Sayed, S.H. Behiry, and W.E. Raslan, Using fractional Derivatives to Generalize the Hodgkin–Huxley Model, which is the chapter 23 of the text book " Fractional Dynamics and Control " edited by D. Baleanu et al, DOI 10.1007/978-1-4614-0457-6 23, Springer Science Business Media, LLC 2012.

#### **Journal Publications**

- El-Sayed, A. M. A., S. H. Behiry, and **W. E. Raslan.** "Adomian's decomposition method for solving an intermediate fractional advection–dispersion equation." *Computers & Mathematics with Applications*, 59(5), (2010): 1759-1765.

- El-Sayed, A. M. A., S. H. Behiry, and **W. E. Raslan**. "A numerical algorithm for the solution of an intermediate fractional advection dispersion equation." *Communications in Nonlinear Science and Numerical Simulation*, 15(5), (2010): 1253-1258.
- Hany H Sherief, AMA El-SayedSecond, SH Behiry, **W.E. Raslan**, Using Fractional Derivatives to Generalize the Hodgkin–Huxley Model, Book chapter (23) in book titled, *Fractional dynamics and control*, edited by Baleanu, D., et al. Springer New York, 2012. 275-282.
- A. M. A. El-Sayed, H. M. Nour, **W. E. Raslan**, E. S. El-Shazly, Fractional parallel RLC circuit, *Alexandria journal of Mathematics* 3 (1), 11-23, 2012.
- H. M. Nour, **W. E. Raslan** , E . S. El-Shazly, Time domain circuit response using fractional differential transform method, *Journal of Fractional Calculus and Applications*, Vol.(3S) (5th. Symposium of Fractional Calculus and Applications group) 2013, No. 9, pp. 1-9.
- A.A. Al-Sarawy, M.M. El-Halwany, **W.E. Raslan** and T.M. Youssef , Modeling of Neutrients Concentration Changes for Bahr Hadous Irrigating Drainage, *International Journal of Scientific & Engineering Research*, 11(5), 389-397, 2014.
- **Raslan, W. E.** "Application of fractional order theory of thermoelasticity in a thick plate under axisymmetric temperature distribution." *Journal of Thermal Stresses* 38(7), (2015): 733-743.
- A. M. A. El-Sayed, H. M. Nour, W. E. Raslan, E. S. El-Shazly, A study of projectile motion in a quadratic resistant medium via fractional differential transform method, *Applied Mathematical Modelling* 39 (10), 2829-2835, 2015.

### Conference Publications

- Abdel-Hamid, H. M. Nour, and **W. E. Raslan**, Similarity reduction of a Kuramoto-Sivashinsky (KS) equation, 4<sup>th</sup>International engineering conference, Mansoura-Sharm El-Sheikh, v4, 213-22, (2004).