

# Curriculum Vitae

**Name** Waleed Ezzat Raslan Abd-Algwad

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**Birth Date** April 12, 1973.

**Sex** Male.

**Nationality** Egyptian.

**Marital Status** Married.

**Specialization  
(Key words)** Fractional calculus, Thermoelasticity.

**Education** - B.Sc., in Communication Engineering, Mansoura University, 1996.  
- M.Sc., in Engineering Mathematics, Mansoura, 2004.  
- Ph. D., in Engineering Mathematics, Mansoura University, 2010.

**M.Sc. Title** “Exact Solutions Of Some Nonlinear Evolution Equations Using  
Reduction Methods”

**Ph.D. Title** “ On Some Problems in Fractional Calculus”

**Employment  
History** *1996-1997* Instrument engineer in the Gulf of Suize petroleum  
company.  
*1998-2004* Assistant Lecturer in the Dept. of Math.and Phys.  
Science, Faculty of Engineering, Mansoura  
University.  
*2004-2010* Lecturer in the Dept. Math. and Phys. Science, Faculty  
of Engineering, Mansoura University.  
*2010- 2016* Assistant Prof. of Math. in the Dept. Math. and Phys.  
Science, Faculty of Engineering, Mansoura University.

- 2011- 2013** Director of the Center for the Study of Environmental Impact Assessment **in Mansoura University**
- 2013-2016** Head of Basic Science departement in Mansoura Hight Institution for Engineering and Technology.
- 2016** Associate Prof. of Math. in the Dept. Math. and Phys. Science, Faculty of Engineering, Mansoura University.

**Teaching Experience**

*Teaching the following under-graduate and post-graduate courses at Faculties of Engineering and Education, Mansoura University:*

- 1- Mathematical Analysis.
- 2- Functional Analysis.
- 3- Differential and Integral Calculus.
- 4- Differential Equations and its applications.
- 5- Complex Analysis.
- 6- Integral Equations.
- 7- Special Functions and Partial Differential Equations.
- 8- Linear Algebra.
- 9- Probability and Statistics.
- 10- Functions of Several Variables and Multiple integrals.
- 11- Numerical methods.

**Supervision**

*I.List of theses awarded under my supervision:*

1. On Some applications of Fractional Calculus in engineering Problems, Mansoura University, Faculty of Engineering, Feb. 2011 (M.Sc).
2. Water Quality Modeling for Organic Loads, Mansoura University, Faculty of Engineering. Aug 2011 (M.Sc).

**Area of Interest**

Mathematical analysis, Engineering Mathematics, Differential equations, integral equations, Fractional calculus modelling.

## List of Publications

- **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.

### **Research Papers**

- 1 B. 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).
- 2 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
- 3 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.
- 4 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.
- 5 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.
- 6 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
- 7 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

- 8 **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
- 9 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
- 10 Sherief, Hany H., and **W. E. Raslan**. "Thermoelastic interactions without energy dissipation in an unbounded body with a cylindrical cavity." *Journal of Thermal Stresses* 39(3), (2016): 326-332.
- 11 **Raslan, Waleed** . "Application of fractional order theory of thermoelasticity to a 1D problem for a spherical shell." *Journal of Theoretical and Applied Mechanics* 54(1), (2016): 295-304
- 12 H. H. Sherief, **W. E. Raslan**, 2D problem for a long cylinder in the fractional theory of thermoelasticity, *Latin American Journal of Solids and Structures*, 13 In press, 2016.
- 13 H. H. Sherief, **W. E. Raslan**, A Thermoelastic spherical shell with and without energy dissipation, *Journal of Thermal Stresses*, in press

## Training Courses

Attending and complete training courses on (at Mansoura University Development

- 1- مهارات العرض الفعال
- 2- النشر العلمى
- 3- مهارات الاتصال فى انماط التعليم المختلفة
- 4- اخلاقيات البحث العلمى
- 5- معايير الجودة فى العملية التدريسية
- 6- تنظيم المؤتمرات العلمية
- 7- ادارة الفريق البحثى
- 8- التخطيط الاستراتيجى
- 9- الجوانب المالية والقانونية فى الاعمال الجامعية
- 10- محركات البحث العلمى وطرق تصنيف الجامعات
- 11- اعداد و تصميم الاختبارات الالكترونية
- 12- الادارة الجامعية