

C.V.

Prof. Dr. Gamal Mohamed Abdel - Rahman Rashed

**Professor of Appl. Mathematics, Faculty of Science Benha University , Benha ,
Egypt**

Personal Data

Name :	Gamal Mohamed Abdel- Rahman Rashed
Nationality :	Egyptian
Date of Birth :	11/07/1960

Scientific Qualifications

- * Ph.D. in Mathematics and Physics from the University of Moscow, (Russia) 1993.**
- * M. Sc. (Applied Mathematics) from the Faculty of Science Benha (Egypt) 1988.**
- * B. Sc. Monoufia University (Egypt) May 1982.**

Academic Appointments

- Demonstrator, Department of Mathematics, Faculty of Science Benha University, Egypt, 1983.**
- Assistant Instructor, Department of Mathematics, Faculty of Science Benha University, Egypt, 1988.**
- Lecturer, Department of Mathematics, Faculty of Science Benha University, Egypt 1993.**
- Associate Professor, Department of Mathematics, Faculty of Science, Benha University, Egypt, 2008.**
- Assistant Professor - Agency Girls Colleges - Riyadh (1996 - 1997).**
- Assistant Professor - Faculty of Education to prepare teachers - Buraidah (1997-2002)**

- **Professor – Dept. Mathematics of Science, Faculty of Science, Princess Norah Bint Abdelrahman University, Riyadh, KSA- (2002 – 2014).**
- **Visiting Professor, Department of Mathematical Sciences, College of Science, Princess Bint Abdulrahman University 2016 – 2017.**
- **Professor – Dept. Mathematics of Science, Faculty of Science, Benha University, Egypt. Now**

Scientific Activities

1. **The presence of bodies of Section (Member) and Secretary of the Council.**
2. **Member of the boards of cultural relations faculty.**
3. **Member of the boards of the College of Graduate Studies.**
4. **Member of the boards of the College of Environmental Affairs.**
5. **Participate in the work plan of study.**
6. **Participate in the work of a draft correction.**
7. **Work schedules and the distribution of Sections Special Sections mathematics and the computer.**
8. **Supervision of the computer labs.**
9. **Participate in the work plan of the summer training for students.**
10. **Participate in the work of the control.**
11. **Supervisor and Acting Department of Mathematics, Faculty of Education.**
12. **Participating in the conferences, external and internal:**

Conferences and Meetings

First: external conferences

1. **The Coordinator of the test (Chair) at the International Conference, Greece (WSEAS) (World Scientific and Engineering Academy and Society) For a panel of the conference (Wseas international Conference on Fluid Mechanics). Entitled: Hydrodynamic, Eco-Hydroutics. From 17-19 August 2004.**
2. **Editor-in-Chief: International Journal of Applied Computational Science and Mathematics (IJACSM)**

3. Was chosen well for such an international conference (Wseas).
4. Tight in the international scientific periodical (Inter. J. of Heat and Mass Transfer).
5. Tight in the international scientific periodical (Heat and Mass Transfer).
6. Tight in the global scientific periodical (Chem. Eng. And Communication)
7. Tight in the global scientific periodical (Nonlinear Analysis: Modelling and Control).

Second: Interior Conferences:

6. The conference of development of university education in the university 18-5-2004 - 2005
7. Conference of The role of science in the development of Egyptian society and the environment in the Faculty of Science Benha from 20-22 October 1996.
8. Conference at the Higher Institute of Technology Benha in 2004.
9. The Eighth National Conference of theoretical and applied mechanics, 5-7 April 2005.
10. Area of Interest: **Computational (Fluid Mechanics, Thin Film, Nanofluids, Heat Transfer)**

Publications

- 1- MAGNETOHYDRODYNAMIC BOUNDARY LAYER FLOW FOR A NON-NEWTONIAN FLUID PAST A WEDGE. J. Astrophysics and Space Science 141, 1988, pp. 9-19.
- 2- BOUNDARY LAYER FLOW OF A NON-NEWTONIAN FLUID OVER A SEMI-INFINITE PLATE UNDER EXTERNAL MAGNETIC FIELD. Journal of the Faculty of Education, No. 11, 1. 1987.
- 3- Unsteady magnetic boundary layer flow of power-law non-Newtonian conducting fluid through a porous medium past an infinite porous flat plate. J. Astrophysics and Space Science 178, 1991, pp. 197-204.
- 4- Steady motion of magnetic hydrodynamic fluid through a porous medium between two coaxial cylinders under an external force and uniform suction. Journal of the Faculty of Education, No. 16, 1991, pp.117-132.

- 5- Theoretical investigation of the segmental conic gas static bearings characteristics. Russian, Rostov-on-Don, 1992, pp.19, Dep. In RISI, N 110 – B- 1993.
- 6-Mathematical models and algorithms of calculating the pressure fields in the lubricating films of the conic gas static bearings Information technologies and systems, engineering problems of the Continuous medium mechanics: Heads of Reports. Republican Conference 21-26 December 1992, Voronezh, VSU, 1992, pp. 146. Russian.
- 7- Method of solving the boundary problems for multitudes regions in the gas lubrication theory. Information technologies and systems, engineering problems of the Continuous medium mechanics: Heads of Reports. Republican Conference 21-26 December 1992, Voronezh, VSU, 1992, pp. 147, Russian.
- 8- Studying of the squeeze forces and tilting moments in misaligned radial face sea coning. . Chem. Eng. Technol. V. 29, issue 3, 2006, 355-356
- 9- Studying fluid squeeze characteristics for aerostatic journal bearing Physica B, 40 2008, 2390-2393.
- 10- Thermal diffusion and MHD effects on combined free-forced convection and mass transfer of a viscous fluid flow through a porous medium with heat generation. Chem. Eng. Tech. 31, 4, 2008, 554-559.
- 11- Unsteady Magnetohydrodynamic flow of non-Newtonian fluids obeying power law model. Journal of Interdisciplinary Mathematics, 2006.
- 12- The fluid flow in the thin films between the immobile conic surface J. Applied Mathematics and Computation, 153/1, 2004, pp.59-67.
- 13- Flow of a non-Newtonian power law through a conical bearing in an applied magnetic field. J. Applied Mathematics and Computation, 159/1, 2004, pp.237-246.
- 14- Magnetohydrodynamic unsteady flow of a non-Newtonian fluid through a porous medium. IASME TRANSACTIONS , Issue 3, Vol. 1, July 2004 ISSN: 1790- 031X, pp. 545-550.
- 15-Unsteady Flow of Free Convection Micropolar Fluid Between Two Parallel Porous Vertical Plates Under External Magnetic Field . WSEAS TRANSACTIONS ON FLUID MECHANICS, Issue 2, vol. 1, February 2006, 190-198.
- 16-On a magnetohydrodynamic unsteady motion of a non-Newtonian fluid between two parallel plates. Journal of Applied Numerical Analysis and Computation. Mathematics, 2005.
- 17- Hydromagnetic flow and Heat Transfer of a Micropolar fluid over a Non-Isothermal porous Stretched Surface Immersed in Porous Medium with Heat Generation IASME TRANSACTIONS , Issue 3, Vol. 1, July 2004 ISSN: 1790-031X, pp. 528-531.

- 18- Studying effect of MHD on thin films of a micropolar fluid, *Physica B*, 404, 2009, 385-3866.
- 19- Effect of a Magnetic Field on a Micropolar Fluid Flow in the Vicinity of an Axisymmetric Stagnation Point on a Circular Cylinder, *Chem. Eng. Tech.* 32, 8, 2009, 1252-1258.
- 20- Thermal-diffusion and MHD for Soret and Dufour's effects on Hiemenz flow and mass transfer of fluid flow through porous medium onto a stretching surface *Physica B* 405, 11 (2010) 2560–2569.
- 21- Thermal Radiation and MHD effects on heat unsteady fluid onto stretching surface. *Journal of Thermophysics and Heat Transfer*, , Vol. 26, No. 3, July–September 2012, 503-510.
- 22- Effects of variable viscosity and thermal conductivity on Unsteady MHD flow of non- Newtonian fluid over a stretching porous sheet. *Thermal Science*, Year 2013, Vol. 17, No. 4, pp. 1035-1047
- 23- Effect of Magnetohydrodynamic on Thin Films of Unsteady Micropolar Fluid through a Porous Medium. *Journal of Modern Physics*, 2011, 2, 1290-1304.
- 24- Heat Transfer in a Hydromagnetic Flow of a Micropolar Fluid over a Stretching Surface with Variable Heat Flux and Generation *International Journal of Dynamics of Fluids* ISSN 0973-1784 Volume 8, Number 1 (2012), pp. 11-23.
- 25- Magnetic Field of Non- Newtonian Power-Law Fluid Effect on Heat Transfer in the Boundary-Layer over a Power-Law Stretched Flat Sheet with Heat Generation *Advances in Theoretical and Applied Mathematics* ISSN 0973-4554 Volume 6, Number 3 (2011), pp. 347-361.
- 26- Effect of joule heating and MHD on a micropolar fluid with convection flow near the stagnation point over a stretching sheet in the presence of heat generation, *Natural Science*, in press 2013.
- 27- Thermal Radiation and Unsteady Magnetohydrodynamic Flow of Nanofluid in Stretching Porous Medium, *Journal of Thermophysics and Heat Transfer*, Vol. 27, No. 1 (2013), pp. 142-150.
- 28- MHD Flow of a non – Newtonian power law Through a conical bearing in a porous medium, *Journal of Modern Physics*, 2014, 5, 61-67.
- 29- Magnetohydrodynamic effects on heat transfer and thermal radiation at a general three- dimensional stagnation point flow in a nanofluid through a porous medium, *Wulfenia Journal* , Vol. 22, No. 2. (2015), pp. 23-35
- 30- Diffusion and Radiation on Unsteady Nanofluid in Porous Medium Between two Parallel Disks with Chemical Reaction *Journal of Computational and Theoretical Nanoscience*, Vol. 13, 8412–8418, 2016
- 31- Studying Radiation and Reaction Effects on Unsteady MHD Non-Newtonian

(Walter's B) Fluid in Porous Medium, Abstract and Applied Analysis Volume 2016, Article ID 9262518, 7 pages

- 32- Entropy and heat generation on unsteady MHD porosity fluid with variable Navier slip and viscosity conductivity, Journal of Computational and Theoretical Nanoscience, V. 14, 2017, pp. 1432-1439.**
- 33- Unsteady Magnetohydrodynamic Flow of a Non-Newtonian Nanofluid in Non-Darcian Porous Medium Over Stretching Surface, Journal of Nanofluids Vol. 5 (2016), pp. 721-727.**
- 34- Entropy and Heat Generation Effects on MHD Non-Darcy Flow with Radiation Porosity of Jeffrey Fluid, Journal of Nanofluids Vol. 6 (2017), pp. 120–127.**
- 35- Chemical Entropy Generation and MHD Effects on the Unsteady Heat and Fluid Flow through a Porous Medium, Journal of Applied Mathematics Volume 2016, Article ID 1748312, 9 pages**
- 36- Heat generation and radiation flow by stretching cylinder with non-Newtonian MHD fluid. ARCTIC Journal, in press 2019.**
- 37- Studying the effect of radiation on thin-film sprayed nanofluid flow with heat Transfer. Heat Transfer—Asian Research, 2019**

Contacts

Address	Department of Appl. Mathematics, Faculty of Science, Benha University Benha , Egypt .
Mob. Tel.	00201222357012
Office Fax	0020133222578
E-Mail	<u>gamalm60@yahoo.com</u>