

*Curriculum Vitae*  
Emad M. Abo-eldahab

Degree: Computer Engineering

Courses: Mathematics 1, Linear Algebra

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**Curriculum**

Academic Qualifications:

Degree	Major	Date	University	Country
Ph.D.	Applied Math.	1997	Ain Shames	Egypt
B.Sc.	Applied Math.Math.	1993	Helwan	Egypt

Academic Position:

Position	University	From	To
Assistant Prof.	Helwaan	6/2003	Present
Lec.	Helwaan	6/1997	6/2003
Assistant Lec.	Helwaan	6/2003	6/1997
Demon	Helwan	11/1987	6/2003

Teaching Experience

*Courses Taught in Egypt:*

- Under graduate courses :

Calculus 1 –Differential Equations- Mathematicl physics- Complex analysis- Analytic Geometry-Laplace and Z Transformations-Special functions-Mech.

Membership in Professional Organisations

1. Egyptian Mathematical Society.
2. Egyptian Physical Mathematical Society
3. Member of the Council of. Egyptian Mathematical Society

Journals Referee

J Applied Math and Moddling- Int. J of Numerical Metheod in heat and fluid flow- Physica Scripta- Inter. J thermal Science.

Acta Mechanica.

### **Theses Supervised:**

• *Ph.D. Theses:*

1. M. El gandy" Some advanced heat transfer problems in a viscous fluid "  
1998
2. A. Fawzy" Some heat transfer problems in micro polar fluids"  
2001
3. M. Abod Al Aziz"“Some heat transfer problems in agnetohydrodynamics““  
2004
4. A. Maria " Some heat transfer problems in non Newtonian fluid”  
2004
5. G. Azzam " Advanced problems about Mechanisms of heat and mass transfer in fluids" .  
2005

• *M.Sc. Theses*

1. M. Abod Al Aziz." Effect of hall and ion –slip currents on some hydromagnetic flow problems with heat convection,"  
1998.
- 2- A. Maria, " Some heat transfer problems in an electrically conducting fluids through porous medium,"  
1998
3. G. Azzam " Some heat transfer problems for radiating fluid,"  
1999
4. Al. Said " Similarity solution for some heat transfer problems in fluid mechanics.  
2005
5. A. Bandakk " Similarity analysis for some partial differential equations,"  
2006
6. R. Ibrahim " Similarity analysis for some systems of non-linear boundary value problems.  
2006

### **List of Publications**

- 1-Hydromagnetic flow over a permeable bed with heat transfer. *J. of the faculty of Education* 43, 682-692. Egypt **1995**.
- 2-Hydromagnetic free convection through a porous medium past a heated plate with Hall currents. *J. of eng. and applied Sci. Vol. 43, No.2, PP. 265-276 Egypt* **1996**.
- 3-Hall and ion slip currents effect on free convection flow through a porous medium *J. of the faculty of Education* 43, 671-681 **1995**.
- 4-Hall and ion-slip effects on MHD free convective heat generating flow past a semi-infinite vertical flat plate. *Physica Scripta* 61, 344, **2000**.
- 5-Radiation effect on convective heat transfer in an electrically conducting fluid at stretching surface with variable viscosity. *Physica Scripta* 62, 321, **2000**.
- 6-Radiation effect on heat transfer in an electrically conducting fluid at a stretching surface with a uniform free stream. *J. phys. D. Appl. phys.* 33, 3180, **2000**.
- 7-Hall effects on magnetohydrodynamic free convection flow at a stretching surface with a uniform free stream. *Physica Scripta* 63, 29, **2001**.
- 8-Hall current effect on magnetohydrodynamics free convection flow past a semi-infinite vertical plate with mass transfer. *Int. J. Eng. Sci.*39, 1641, **2001**.

9-Radiation effect on MHD free convection flow a gas past a semi-infinite vertical plate with variable viscosity. *Int. J. of computational fluid dynamics*, 14, 243 **2001**.

10-Convective heat transfer in an electrically conducting fluid at a stretching surface by the presence of radiation. . *Canadian Journal of Physics*,79, 929, **2001**.

11-Convective heat transfer past a continuously moving plate embedded in a non- darcian porous medium in the presence of a magnetic field *Canadian Journal of Physics*,79, 1031, **2001**.

12-Radiation effects on unsteady MHD free convection with Hall current near an infinite vertical porous plate” *Int. J. of Math. and Math. Science*, 26, 249-255 (2001)

13-Mixed free forced convective flow of a gas past a semi-infinite moving vertical plate for high temperature differences. *Canadian Journal of Physics*, 80, 1609, (**2002**).

14-Convective heat transfer in an electrically conducting micropolarfluid at stretching surface *Applied Mathematics and Computation* 137, 323-336 (**2003**)

15-Hall effects on MHD free convection flow of a non-Newtonian Power law fluid at a stretching surface *Int. J. Communication in heat and mass transfer* 31, 3, 343-354 (**2004**)

16-Hall current and Ohmic heating effects on mixed convection boundary layer flow of a micropolar fluid from a rotating cone with power-law variation in surface temperature *Int. J. Communication in heat and mass transfer* 31, 5, 751-762 (**2004**)

17-Blowing/suction effect on hydrodynamics heat transfer by mixed convection from inclined continuously stretching surface with internal heat generation/absorption *Int. J. Thermal Sciences* 34, 7, 709-719 (**2004**).

18-The effects of temperature –dependent fluid properties on free convective flow along a semi-infinite vertical plate by the presence of radiation *J. Heat and Mass transfer* 41, 163-169 (**2004**).

19-MHD combined convection flow of a non-Newtonain power –law fluid due to a rotating cone or disk *Canadian Journal of Physics*,82, 531, (**2004**).

Flow and heat transfer in a micropolar fluid past a stretching surface embedded in a non-Darcian porous medium with uniform free stream *Applied Mathematics and Computation* 162, 881-899 (**2005**).

20-Viscous dissipation and Joule heating effect on MHD free convection from a vertical plate with power law variation in surface temperature in the presence of 21-Hall and ion slip currents *Applied Mathematical Modelling* 29, 579-595 (**2005**).

22-MHD flow and heat transfer of a non-Newtonian power law fluid with diffusion and chemical reaction on a moving cylinder. *J. Heat and Mass transfer* 41, 703-708 (**2005**).

23-Thermal radiation effects on magnetohydrodynamics flow past a semi-infinite vertical plate in the presence of mass diffusion. 83, 243-256 *Canadian Journal of Physics* (**2005**).

24-Hydrodymagnetic Three-Dimensional Flow over a Stretching Surface with Heat and Mass Transfer *J. Heat and Mass transfer* 41, 734-743 (**2005**).

25-Similarity analysis in MHD: Hall effect on forced convective heat and mass transfer of non – Newtonian power law fluid past a semi infinite vertical flat plate *Acta Mechanica* 177, 71-87 (**2005**).

26-Hydromagnetic Three dimensional free convective heat transfer over a stretching surface embedded in a non Darcian porous medium in the presence of heat generation or absorption *Canadian Journal of Physics* 83, 739-751 (**2005**).

27-MHD free convection flow of a non-Newtonian power –law fluid at a stretching surface with a uniform free stream *applied Mathematics and Computation*, 169, 806-818 (**2005**)

28-Thermal radiation effects on magnetohydrodynamics flow past a semi-infinite vertical inclined plate in the presence of mass diffusion. 83, 243-256 *Canadian Journal of Physics* (**2005**).

28-Radiation effect on heat transfer of a micropolar fluid through a porous medium *Accepted for publication in applied Mathematics and Computation* (2005)

*29-Unsteady Three-Dimensional Combined Heat and Mass Free Convective Flow over a Stretching Surface with Time Dependent Chemical Reaction Accepted for publication in ACTA Mech. (2005)*