

Curriculum Vitae

Mohamed Abu-Elenin

Abdel Aziz

Professor

Math. & Nat. Sciences Dept.

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1. Personal Information

First Name/Sure Name: Mohamed Abu-EleninAbdel-Aziz

Date of Birth: 1/8/1943

Nationality: Egyptian

E-mail: m-abolenin@eru.edu.eg

Gender: male

2. Education

Title of Awarded Degree	Name of Organization Providing Education	Principle Subject	Dates
Dr. Eng	T.H Aachen-Germany	Applied Math.	1978
M.sc.	Uni. of Alex. -Egypt	Engineering	1968
B. Sc	Uni. of Alex. -Egypt	Engineering	1965
B.Sc	Uni. Of London – U.K.	Mathematics	1977

3. Professional Experience

Occupation	Name & Address of Employer	Dates	
		From	To
Professor (Math. & Nat. Sciences Dept.)	Egyptian Russian University, Egypt	2009	Present
		From	To
College of Education for Girls, Math. Dept., Abha.	College of Education for Girls King Khaled, KSA	1992	2009
		From	To
Professor and Head (Math. & Nat. Sciences Dept.)	Faculty of Engineering, Zagazig University, Shobra, Cairo, Egypt	1989	1992
		From	To
Professor (Math. & Nat. Sciences Dept.)	Faculty of Engineering, Zagazig University, Shobra, Cairo, Egypt	1988	1989
		From	To

4. Discipline

General Discipline	Mathematics	Principle Subject	Applied Math.
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5. Professional & Technical Skills

1. Undergraduate Courses:

- Mathematics: Analytical Plane and Solid Geometry, Calculus, Differential Equations (Ordinary & Partial), Special Functions, Mechanics, Statics, Dynamics (Particle & Rigid Body), Analytical Mechanics, Fluid Mechanics, Theory of Elasticity
- Electrical Engineering: Electric Circuits, Electric Machines

2. Postgraduate Courses (M.Sc. Plan):

- Mathematical Methods, Relativity Theory, Hydrodynamics, Special Functions, Electro-dynamics, Theory of Electromagnetism.

3. Postgraduate Courses (Ph.D. Plan):

- Electro-dynamics, Ordinary Differential Equations, Partial Differential Equations, Mathematical Methods

6. Personal Skills

Computer Skills	Self Assessment		
	Excellent	Good	Fair
Microsoft Office	√		
Language Skills	Excellent	Good	Fair
Arabic	√		
English	√		
German	√		

7. Scientific Activities

a. Publication:

1. "The Characteristic of a Spherical Electrostatic Probe Immersed in a Quiescent Dense Plasma Acted upon by a Magnetic Field ", Delta J. Science, 19 (2) 1995, 71-83.
2. "Charge Concentration and Potential Distribution in the Main Region of a Dense Quiescent Plasma Due to the Existence of a Spherical Electrostatic Probe and the Influence of a Magnetic Field ", Acc., Zagazig University, Faculty of Science, Sci. Research J., Egypt (1995).

3. "Potential Distribution in the Main Region of a Dense Streaming Plasma Due to The Existence of a Spherical Electrostatic Probe", Zagazig University, Faculty of Science, Sci. Research J., Egypt (1994).
4. "Charge Distribution in the Main Region of a Dense Streaming Plasma due to the Existence of a Spherical Electrostatic Probe. Acc. Bull. Faculty of Science, Zagazig University, Egypt, August (1992).
5. "Charge Distribution in the Main Region of a Dense Streaming Plasma due to the Existence of a Strongly Negative Spherical Electrostatic Probe", Acc. Journal of the Faculty of Education, Ein Shams University, Mathematics and Physics, Egypt, April (1987).
6. "A Simpler Mathematical Treatment for Calculating the Charge Concentration in the Sheath Region of a Dense Plasma", Acc. Journal of the Faculty of Education, Ein Shams University, Mathematics and Physics, Egypt, April (1987)
7. "A Mathematical Formula for the Charge Distribution in the Sheath Region of a Slightly Ionised, Collision-Dominated, Slowly Streaming Plasma", (AMSE) Conference, Cairo, Egypt, 2-4 March (1987).
8. "Asymptotic Behaviour of the Spherical Electrostatic Probe in the Streaming Plasma", (AMSE) Conference, Cairo, Egypt, 2-4 March (1987).
9. "A Mathematical Formula Giving the Result of Double Integration of the Airy Integrals Using the Laplace Transformation", (AMSE) conference, Cairo, Egypt, 2-4 March, 1987.
10. "A Mathematical Formula Giving the Potential Distribution in a Dense, Weakly Ionised and Streaming Plasma", Acc. Ein Shams Univ., Fac. of Eng. Sci. Bull. Cairo, Egypt, September (1986).
11. "A New Simpler Mathematical Method for Determining the Characteristic of the Langmuir-Probe", Acc. Ein Shams Univ., Fac. of Eng. Sci. Bull., Cairo, Egypt, Sep., 1986.
12. "An Analytical Method for Calculating the Charge Distribution in the Main Region of a Weakly Ionized, High Density Streaming Plasma", Acc. Armed Forces Sci. Bull. Cairo, Egypt, March 1986.
13. "Some Inverse Laplace Transforms and their Use in Obtaining a Double Integral Involving Modified Bessel Functions", Acc. Armed Forces Sci. Bull., Cairo, Egypt, March 1986.
14. "A Mathematical Expression Giving the Charge Distribution in the Electric Sheath Region in a Quiescent, High Density, Weakly Ionised Plasma", (IASTED) Conference, Lugano, Switzerland, 1985.
15. "Transient Components of Chopper-Fed DC. Series Motor", (IASTED) Conference, Lugano, Switzerland 1983.
16. "Fast Method for Computing Transient Torque of 3-Phase Induction Motor", (AMSE) Conference, Paris, France 1982.
17. "A Suggested Mathematical Treatment for the Continuum Theory of a Relatively Negative, High-Tension, Spherical Electrostatic Probe in a High Density, Slowly Flowing Plasma", The Eighth Annual Operation Research Conference, Special Issue, Vol. 8, No 1, Cairo, Egypt, February (1982).
18. "A Closed Mathematical Expression for the Characteristic of a Low-Tension, Spherical Electrostatic Probe in a Slowly Flowing, High Density Plasma", Bull. Faculty of Science, Zagazig University, 1-10 March 1981.
19. "New Approach for Analysis of Inductive Circuits Controlled by Thyristor", Bull., Faculty of Science, Zagazig University, 3, 11-16 (1981).
20. "Die Charakteristik der Langmuir-Sonde bei kleiner Vorspannung", ZAMM 57, T 165-167 , Graz, Austria ,(1976).

b. Conferences

Conferences	Professional Conference Organizer
The International Conference for Modeling and Simulation	“AMSE”, Cairo, Egypt, 1987
The International Conference for Modeling and Simulation	“IASTED”, Lugano, Switzerland, 1985
The International Conference for Modeling and Simulation	“IASTED”, Lugano, Switzerland, 1983
The International Conference for Modeling and Simulation	“AMSE”, Paris, France, 1982
The Eighth Annual Conference for Operational Research	Zagazig University, Egypt, 1982
The International Conference for Mechanics and Applied Mathematics	Graz, Austria, 1976

8.Membership of Professional Associations

- High Committee for Professors Promotion in Engineering Mathematics & Physics and Nuclear Engineering, Egypt.
- Egyptian Engineering Society, Egypt.
- Egyptian Scientific Society, Egypt.
- Egyptian Educational Society, Egypt.

I certify hat the information provided in this curriculum vitae is accurate.

Name	Mohamed Abu-Elenin Abdel-Aziz	Signature	Mohamed Abu Elenin	Date	Feb 1 st , 2021
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