Curriculum vitae

Personal Data

Name: Prof. Dr. Osama Mohamed H. Abo-Seida.

Job: Professor of Applied Mathematics and Dean of Faculty of Computers& Information

Date of Birth: 21/10/1968

Nationality: Egyptian

Qualifications

1. B.Sc. Mathematics (Excellent, 1990) Tanta University.

2. MSc. Mathematics (1994) Faculty of Science, Tanta University

3. PH.D. Mathematics (1997) Faculty of Science, Tanta University

4. Associated Professor Applied Mathematics (2003) Tanta University.

5. Professor of Applied Mathematics (2010) Faculty of Science, Kafr El-Sheikh University

Position Held

1. Demonstrator of Mathematics in the Faculty of Education, Kafr El-Sheikh Branch, Tanta University (1991-1994).

2. Assistant Lecturer of Applied Mathematics in the Faculty of Education, Kafr El-Sheikh Branch, Tanta University (1994-1997).

3.   Lecturer of Applied Mathematics in the Faculty of Education, Kafr El-Sheikh Branch, Tanta University (1997-2003).

4.   Associated Professor of Applied Mathematics in the Faculty of Education, Kafr El-Sheikh Branch, Tanta University (2003-2006).

5. Associated Professor of Applied Mathematics in the Faculty of Science, Kafr El- University (2006-2010).

6. Professor of Applied Mathematics , Head of Mathematics Department in the Faculty of Science, Kafr El-Sheikh University (2010-14/7/2015) and Dean of Faculty of Computers & Information (2015-now).

Lectures

a) For undergraduate students:

1. Calculus 1, Static and dynamics for 1st year undergraduate, Faculty of Science and Education.

2. Differential equation, mathematical analysis, calculus2, mathematical to physical science for 2st year undergraduate, Faculty of Science and Education.

3. Partial differential equation, special functions, complex analysis, fluid dynamics, analytical

dynamics and electrostatic for 3st year undergraduate, Faculty of Science and Education.

4. Differential geometry, Applied mathematics, theory of elasticity, quantum mechanics, electrodynamics for 4st year undergraduate, Faculty of Science and Education

b) For Postgraduate students:
1. Ordinary Differential Equations 1,2
2. Mathematical Methods
3. Electrodynamics

Membership of professional Societies

1. Egyptian National Committee for Mathematics
2. Member of the International Mathematical Union (IMU)
3. Member of the Mathematics Society of Egypt
4. Scientific Council of Egypt.
5. Academic Member of the Athens Institute for Education and Research, Greece.
6. ACES, USA.
7. The permanent board of promoting Associated Professors of the Kingdom of Jordan (Hussein University).
8. The permanent board of promoting Associated Professors and Professors of the Ministry of High Education, Egypt.

Research Interest

Applied Mathematics, wave propagation, computational electromagnetic.

Reviewer

1. Journal of Science and Technology Education Research (jster).
2. Journal of Electromagnetic waves and Applications (JEMWA).
3. IEEE international geoscinence and remote sensing symposium (23-27 July 2007 Barcelona-Spain).
4. Progress in Electromagnetic Research
5. Applied Computational Electromagnetics Society (ACES)
6. Can. J. Physics
7. AES 2012 Advanced Electromagnetics Symposium 16-19 April 2012, Paris – France.
8. International Journal for Applied Electromagnetics and Mechanics.
9. Research Projects at King Abdul Aziz University - Jeddah - Saudi Arabia Year 2011/2012 and 2012/2013.
10. Editor of Advancement of Scientific and Engineering Research, (ASER)
11. Editorial Board of International Journal of Applied Mathematics & Statistical Sciences (IJAMSS).
12. Editorial Advisory Board of American Journal of Research Communication.
13. Editorial Board of International Journal of Scientific Research in Knowledge.

Books

Electromagnetic waves, (ISBN 978-953-307-304-0), InTech – Open Access Publisher, Austria, 2011

Awards

1. University award for international publication of the year 2010/2011 (three awards).
2. University award for international publication of the year 2012/2013 (three awards).

Research visited

1. International conference in electromagnetism, EUROEM 2000, 30 May.-2 June 2000, Edinburgh, UK.
2. Visiting Professor at the University of Kuibio, Finland, 28/6/2000 - 07/08/2000.
3. Workshop in the areas of satellite communications ,at the International Centre for Theoretical Physics and mathematics (Abdou Salam) in Trieste, Italy, 12 February 2001 to March 2, 2001.

Thesis

Supervisor to Three students PhD

List of publication

1. L. El-S. Rashid, O. M. Abo-Seida and S. T. Bishay, Electromagnetic Field Produced by a Vertical Magnetic Dipole above a Rough Surface, ICEAA 95, Sept.12-15, 1995.

2. O. M. Abo-Seida, S. T. Bishay, Response above a plan- conducting earth to a pulsed vertical magnetic dipole at the surface, Canadian Journal of Physics, vol.78, pp.833-844, 2000.

3. S.T. Bishay , O. M. Abo-Seida and G. M. Sami, Transient electromagnetic field of a vertical magnetic dipole on a two-layer conducting earth , IEEE Trans. Geosciences and Remote Sensing, vol.39,pp. 894-897. 2001.

4. Osama M. Abo-Seida, Electromagnetic field of thin circular loop antenna of arbitrary radius, Canadian Journal of Physics, vol.80,pp.29-37,2002.

5. Osama M. Abo-Seida, Vertical polarization for transient plane waves obliquely incident on a conductive half-space,, Canadian Journal of Physics, vol.80,pp.571-577,2002.

6. Osama M. Abo-Seida, The solution of electromagnetic fields by equivalent magnetically network, Journal of Chaos, Solit & Fraction, vol.15, pp. 511-515, 2002.

7. S.T. Bishay , O. M. Abo-Seida and G. M. Sami, Natural- frequency concept utilized in remote probing of the earth, Canadian Journal of Physics, vol.81,pp.705-712,2003.

8. O. M. Abo-Seida, S. T. Bishay, Propagation of electromagnetic field from a pulsed electric dipole in dielectric medium. Chinese Journal of Physics, vol.39, pp.177-181, 2001.

9. O. M. Abo-Seida, Uniqueness solution for the boundary value problem defined by specifying the components of the electromagnetic field, Journal of Applied Mathematics and Computation vol.132,553-558, 2002.

10. O. M. Abo-Seida, The Analyticity of the electromagnetic field in an Isotropic medium. Journal of Applied Mathematics and Computation, vol.127, 361-364, 2002.

11. O. M. Abo-Seida, Propagation of electromagnetic in a rectangular, Journal of Applied Mathematics and Computation, vol.1136, 405-413, 2003.

12. <u>O. M. Abo-Seida</u>, propagation of electromagnetic field in an abnormal stratification of the upper ionosphere, Applied Mathematics and Computation, vol.142,409-416, 2003.

13. <u>Osama M. Abo-Seida</u>, Determination of the boundary value problem of the electromagnetic field over a closed regular boundary, Journal of Chaos, Solit & Fraction, vol.17, pp. 843-846, 2003.

14. <u>O. M. Abo-Seida</u>, Estimation of the electromagnetic field created at the earth's surface by an overhead line current, Applied Mathematics and Computation, vol.149, 559-565, 2004.

15. <u>O. M. Abo-Seida</u> and G. M. Sami, Transient field of a vertical electric dipole on an M-layered dielectric, Canadian Journal of Physics, vol.81,pp.869-875,2003.

16. <u>O. M. Abo-Seida</u> ,S.T. Bishay and K. M. Morabie ,Far–field radiated from a vertical magnetic dipole in the sea with a rough upper surface ,IEEE Trans Geosciences and Remote Sensing, vol. 44, pp. 2135-2142. 2006.

17. <u>O. M. Abo-Seida</u>, Far –field radiated from a vertical magnetic dipole in sea, Journal of Electromagnetic waves and Application, vol.20 pp.707-715, 2006.

18. <u>O. M. Abo-Seida</u> and R. Pirjola , Transient behavior of magnetic and electric fields at any height above an atmospheric duct , Canadian Journal of Physics, vol.86,pp. 1103-1107,2008.

19. <u>O. M. Abo-Seida</u>, Radio communication in circular tunnels, International Journal of Applied Electromagnetics and Mechanics, vol.29, no.3-4 , pp.157-161 ,2009.

20. <u>O. M. Abo-Seida</u>, Determination of the electric and magnetic field in a spherical core. General Mathematics and its Applications, Al-Joif Uni. May.31, 2009.

21. <u>O. M. Abo-Seida</u>, S.T. Bishay and K. M. Morabie, Analysis of scattering from buried object by using the geometrical optics, International Journal of Applied Electromagnetics and Mechanics ,vol.30, no.1-2, pp. 39-49,2009.

22. <u>O.M. Abo-Seida</u>, Communication of radio waves above rough surface. Fourth Saudi Science Conference Contribution of Science Faculties in the Development Process of KSA March 21-24-2010.

23. <u>O. M. Abo-Seida</u> and S.T. Bishay, Lateral waves near the surface of sea, Journal o Electromagnetic Analysis and Application, Vol.3 No.6,pp.199-207, 2011.

24. <u>O. M. Abo-Seida</u> and et al.., *Book* "Electromagnetic **Waves**" InTech – Open Access Publisher, Austria (ISBN 978-953-307-304-0), 2011.

25. <u>O. M. Abo-Seida</u> and G. M. Sami, The Electromagnetic Field Propagation in a Spherical Core, Journal of Electromagnetic Analysis and Application , Vol.4, no. 12, pp. 481-485, 2012.

26. S.T. Bishay, <u>O. M. Abo-Seida</u> and H. Shoeib "Scattering of Electromagnetic Waves from a Vertical Magnetic Dipole Located between two Rough Surfaces, IEEE Trans. Geosciences and Remote Sensing,Vol.50,no.10,pp.4006-4013, 2012.

27. S.T. Bishay, <u>O. M. Abo-Seida</u> and H. Shoeib "Propagation and Scattering of the Electromagnetic Waves in Three-Layered Media Separated by Rough Surfaces", Journal of Electromagnetics, Vol. 33,no.7,pp.491-506, 2013.

28. S.T. Bishay, O. M. Abo-Seida and H. Shoeib" Wave Propagation in Air from a Vertical Magnetic Dipole Located in Three Rough-Layered Structures " Journal of Electromagnetic waves and Application ,Vol. 27, no. 7, pp. 911-929, 2013.

29. <u>O. M. Abo-Seida</u> and G. M. Sami "The mutual impedance of thin circular loop antennas on an N-layered conducting medium at high frequency" IJERSTE, Vol. 3, no. 5, pp. 270-274, 2014.

30. <u>O. M. Abo-Seida</u> and S.T. Bishay" Radio communication of waves above rough surface" accepted for publication at 2 Annual international conference on phys., July 2014, Athens, Greece.

31. S.T. Bishay, <u>O. M. Abo-Seida</u> and H. Shoeib" Analytical Formulas for Dipole Radiation Buried inside Planar Stratified Media " accepted for publication at ASAT, May 26-28,2015.

32. <u>O. M. Abo-Seida</u>, Transient field of a vertical electric dipole on an upper rough surface of the sea

33. N. Eldabe, <u>O. M. Abo-Seida,</u> Adel Abo Seliem,Abdelhafeez El- Shekhipy and nada hegazy " peristaltic transport of magnetohydrodynamics carreau nanofluid with heat and mass transfer inside asymmetric channel " **American** Journal of Computational Mathematics, 2017, 7, 1-20.

34. N. Eldabe, <u>O. M. Abo-Seida,</u> Adel Abo Seliem,Abdelhafeez El- Shekhipy and nada hegazy "magnetohydrodynamics peristaltic flow of Williamson nanofluid with heat and mass transfer through a non-Darcy porous medium" Published online in Microsystem Technologies, 2018.

Names of reference

1 -Prof.Dr. Risto Pirjola

Finnish Meteorological Institute (FMI)

P.O. Box 503

00101 Helsinki

Finland

email:risto.pirjola@fmi.fi

2- Prof. Dr. *Prof. Shigeyuki Minami*
Department of *Electrical Engineering*,
Osaka City University
Japan
e-mail: *minami*@elec.eng.*Osaka*-cu.ac.jp

P.O. Box 503

00101 Helsinki

Finland