# Curriculum vitae

## Personal details:

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Name: Mahmoud Mohamed, Selim
Academic grade: Dr. Applied Math.
Place of birth: Qena /Egypt
Nationality: Egyptian
Title: Associate Professor (Natural and Applied Science Department).
Occupation: Head of Natural and Applied Physics Department.
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## Education:

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| October 1998 to August 2000 | Visiting Researcher (Ph.D. program) at the International Institute of Seismology and Earthquake Engineering (IISEE), Tsukuba , Japan. |
| September 1995 to July 1996 | Diploma In Seismology (Mathematics , Statistics, Computer Sciences) International Institute of Seismology and Earthquake Engineering (IISEE), Tsukuba , Japan. |
| May 1994 | M. Sc. in Mathematics , Aswan Faculty of Science - Assiut University, Egypt, |
| Fall 1983.May 1987 | Student of Mathematics at The Faculty of Science of Assiut University, Egypt,( with grade very good with honor) |
| May 1983 | University Entry Qualification from Essna High School, Egypt. |

## Details of Employment:

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### Academic Career:

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| March 2008 Until Now | Associate Professor at Al-Aflaj Community College , King Saud University , Saudi Arabia Kingdom. |
| February 2005 March 2008 | Assistant Professor at Al-Aflaj Community College , |

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| September 1995 to July 1996 | JICA Participant at the International Institute of Seismology and Earthquake Engineering (IISEE), Tsukuba , Japan. |
| May 1994 to October 1998 | Research Assistant at the National Institute of Astronomy and Geophysics, Helwan , Egypt. |
| From June 1989 to May 1994 | Assistant Researcher at the National Institute of Astronomy and Geophysics, Helwan , Egypt. |

## Grants and Awards:

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| July 2008 | Grant of the King Abdullah Institute for Nanotechnology award to do cooperative research at the Nanotechnology Research Institute (NRI),Tsukuba , Japan. |
| October 1998 | Grant an Egyptian Government award to complete the Ph.D. Study at the Building Research Institute (BRI),Tsukuba , Japan. |
| September 1995 | Grant of the JICA Program for Seismology and Earthquake Engineering at the International Institute of Seismology and Earthquake Engineering (IISEE),Tsukuba , Japan. |

## Teaching and Research Experience:

Teaching

### Undergraduate level

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| September 2000 to 2001 | Teaching Mathematics for students of Science and Education, South Valley University, Aswan, Egypt. |
| September 2001 to 2002 | Teaching Mathematics for students of Higher Energy Institute, South Valley University, Aswan, Egypt. |
| September 2002 to February 2005 | Teaching Mathematics for students of Science and Education, Suez Canal University, Suez, Egypt. |
| February 2005 until now | Teaching Mathematics for students of Community College , Al-Aflaj, King Saud University, KSA. |

### Graduate level

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| January 2000 | Exercise classes in Theoretical Seismology For JICA Participants at the National Institute of Astronomy and Geophysics, Helwan ,Egypt |

**Conferences and Workshops attended**:

# Reviewer for manuscripts submitted to the journals

**1- Member and reviewers of Scientific and Technical Committee on Natural and Applied Sciences of World Academy of Science, Engineering and Technology (WASET).**

**2- World Scientific( International Journal of Modern Physics B).**

**3- Elsevier(Applied Mathematics and Computation Journal).**

**4-Springer( Journal of Nanoparticle Research)**

# Computing Experience:

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| Spss program | all versions |
| Fortran | Workstations and supercomputers |
| Operating systems | UNIX, WindowsXP. |

## Research

1- M. M. Selim. " Vibrational analysis of carbon nanotubes under initial compression Stress," NANO Conference 2009, **April 5-7, 2009**, King Saud University.

2- M. M. Selim. " Torsional vibration of carbon nanotubes under initial compression stress," 3rd International Conference on MATHEMATICS & STATISTICS 5-18 JUNE 2009, Athens, Greece.

3- M. M. Selim. S. Abe and S. Harigay " Effects of initial compression stress on wave propagation in carbon nanotubes," Eur. Phys. J. B **69**, 523-528 (2009).

4-M. M. Selim," Reflection of Plane Waves at Free Surface of an Initially Stressed Dissipative Medium," International Conference on Applied Mathematics and Numerical Analysis, July 4-7, Paris, France (2008).

5- M. M. Selim," Effect of irregularity on Static deformation of elastic half-space,". International Journal of Modern Physics (IJMPB), Vol.22, Issue 14 (10 June 2008).

6- M. M. Selim. "Static deformation of an irregular initially stressed medium," Appl. Math. Comput., Amsterdam, Netherlands, (2007) Vol. 188 (2) 1274-1284.

7-M. M. Selim. "Torsional waves propagation in an initially stressed dissipative Cylinder". Applied Mathematical Sciences ,Vol. 1,no.29,1419-1427 (2007).

8-M. M. Selim. " Propagation of torsional surface waves in heterogeneous half-space with irregular free surface," Applied Mathematical Sciences ,Vol. 1,no.29, 1429-1437 (2007).

9-M. M. Selim." orthotropic elastic medium under the effect of initial and couple stresses," Appl. Math. Comput. Amsterdam, Netherlands, Vol. 181 (1) 185- 192 (2006).

10- M. M. Selim and M. K. Ahmed. " Plane strain deformation of an initially stressed orthotropic elastic medium," Appl. Math. Comput. Amsterdam, Netherlands, Vol. 175 (1) 221-237(2006).

11-M. M. Selim and M. K. Ahmed. " Propagation and attenuation of seismic body waves in dissipative medium under initial and couple stresses ," Appl. Math. Comput. Amsterdam, Netherlands, Vol. 182 (2) 1064-1074(2006).

12-M. M. Selim, M. Imoto, and N. Hurukawa " Statistical Investigation of Reservoir-Induced Seismicity in Aswan area, Egypt, Earth, Planets and Space, Japan, Vol. 54, 349-356(2002).

13-M. M. Selim " Rayleigh Wave Dispersion in Flat-Layered Media " Bull. Individual Study, IISEE, Japan, Vol. 32, 45-57, (1996).

14-A.M. El-Naggar and M. M. Selim " Wave Propagation in Layered Media under Initial Stresses," Applied Mathematics and Computation, New York, Vol. 74, 95-117 (1996).