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Name: Adeb Gasim Mustafa Talafha.

Academic rank: Associate Professor.

Nationality : Jordanian.

Date of Birth : June/23/1969.

Place of Birth : Juhfia/Irbid/Jordan.

Address : Department of Mathematics and Statistics,

Faculty of Science,

Al-Hussein Bin Talal University,

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\* EDUCATION :

1. PhD degree in Applied Mathematics, 2006, Michigan Technological University USA.

Dissertation Title: Inverse Scattering Transform Analysis of Multi-Soliton Solutions of the Three-Wave - Interaction of Long Rectangular Pulses.

2. Master degree in Applied Mathematics, 1994, the University of Jordan, Jordan.

Dissertation Title: A variational Principle for free surface waves over general bottom topographies.

3. Bachelor degree in Mathematics, 1991, Mu'tah University, Jordan.

\* COMPUTER SKILLS :

1. ICDL

2. Mathematica.(Expert.)

3. Fortran.

4. SPSS (Statistical Analysis Software).

5. Latex.(Expert.)

6. Mat lab (Applied Numerical Linear Algebra Software).

\* LANGUAGES :

1. Arabic: Native.

2. English: Excellent.

\* PEDAGOGICAL and RESEARCH INTEREST :

1. Applied Mathematics.
2. Applications of Linear and Nonlinear Systems of Ordinary Differential Equations.
3. Applications of Linear and Nonlinear Systems of Partial Differential Equations.
4. Mathematical Modelings for Physical and Natural Phenomena.
5. Interactions of Nonlinear Optical Waves.
6. Scattering and Inverse Scattering Transform Methods.
7. Numerical Analysis.
8. Non Linear Evolution Equations.
9. Extended Tan and Tanh methods.

\* PROFESSIONAL EXPERIENCE :

1. Ministry of Education/ Jordan, Aug 01/1994 - Feb/01/ 1995.
  - Position Held: Teacher.
  - Discipline: Mathematics.
2. Mutah University/ Jordan Feb/02/1995 - Oct/01/2001.
  - Position Held: Lecturer.
  - Discipline: Mathematics.
3. Michigan Technological University/ USA Jan/15/2002- Nov/03/2006.
  - Position Held: Teaching Assistance.
  - Discipline: Teach students. elementary courses in Mathematics.
  - Teach students Mathematica software.
  - Teach students laboratory calculus sessions.
  - Teach students through discussion, practical and group exercises, solve problems, exams grader.
4. Al-Hussein Bin Talal University/ Jordan. /Nov/19/2006- Till Now
  - Position Held:
    - \* Assistance Professor. /Nov/19/2006 - Jan/31/2012.
    - \* Associate professor./Feb/1/2012-Till now.
  - Head of the Dept. of Mathematics and Statistics:
    - \* Sep/2008- Sep/2009.
    - \* Sep/2010- Sep/2012.

- Discipline: Teach students different courses in mathematics through discussion, practical and group exercises , Assess students through solving problems, evaluating and discussing exams and project requirements , Counsel and advise students on scheduling their classes and degree requirements

\* CONFERENCES :

1. International conference on Mathematics and Statistics, June 11-12, 2007. Athens, Greece.
2. Petra International Conference on Mathematics, Oct. 23-25 Oct., 2007. Al-Hussein Bin Talal University/ Jordan. October/ 23-25 /2007.
3. Arabic Council for Training Arab Students. Al-Hussein Bin Talal University/ Jordan. August 9/2007
4. 2nd Regional Conference on Applied and Engineering Mathematics 2012 ( RCAEM II-2012)  
Institute of Engineering Mathematics / University Malaysia Perlis ,Malaysia.

\* GRADUATE COMMITTEES :

1. Member, Master degree in Mathematics for Muna Al-Hamouri. Inertial Manifolds of Non-linear Beam Equations. The University of Jordan/ Jordan. Nov/20/2007.
2. Member, Master degree in Mathematics for Ahmad Khalil. Exponential Attractors for Semi Linear Wave Equations with Damping. The University of Jordan/ Jordan. May/10/2008.
3. Member, Master degree in Mathematics for Hazem Albashyreh. On the Numerical Solution of Singular Initial Value Problem by Homotopy Analysis Method. Mutah University/Jordan. Nov/27/ 2008.
4. Member, Master degree in Mathematics for Samar Alrawashdeh. On the Numerical Solutions of Singular Boundary Value Problems by Differential Transform Method. Mutah University/ Jordan. April/14/2010.
5. Member, Master degree in Mathematics for Ghada Ali. Al-atoom . Cayley Graphs of Groups and Constructive Properties. Mutah University/Jordan. July/24/ 2010.
6. Member, Master degree in Mathematics for Ahmmad Etoom. Line Graph of Simple Graphs and Structure Properties. Mutah University/Jordan. July/24/ 2010.
7. Member, Master degree in Mathematics for Alaa' Hakam Alrawajfeh. The Cycles of Simple Graphs . Mutah University/Jordan. October/22/ 2012.
8. Member, Master degree in Mathematics for Salah Ibrahim Al-awad. On Regular Group Rings, . Mutah University/Jordan. October/22/ 2012.
9. Member, Master degree in Mathematics for Eman Mohammad Al-Turk. Fixed Point Theorems of non Expansive Mapping in 2-Metric Spaces. Mutah University/Jordan. December/27/ 2012.
10. Member, Master degree in Mathematics for Dhaifallah Aqla Alazmi. On Commutative Group Rings. Mutah University/Jordan. Jan/01/ 2013.
11. Member, Master degree in Mathematics for Sharhabeel Madallah Al-Jawazneh. On Lp-Space Related to Class of Lebesgue Measure. Mutah University/Jordan. June/23/ 2013.
12. Member, Master degree in Mathematics for Mohammad Jamal. On Isomorphism Rings. Mutah University/Jordan. Oct/01/ 2013.
13. Member, Master degree in Mathematics for Ahmad Ali. On Noetherian Rings. Mutah University/Jordan. Oct/01/ 2013.

14. Member, Master degree in Mathematics for Mohammad Kh. Alkassasbah. Jacobi-Chebyshev Polynomials and Approximations. Mutah University/Jordan. Nov/05/ 2013.

15. Member, Master degree in Mathematics for Salwa Mohmmmed Abu Tuqayqah. On the Comparison Between Euclidean Geometry and Lobacheveskian Geometry. Mutah University/Jordan. Aug/12/ 2014.

\* COURSES TAUGHT IN AL – HUSSEIN BIN TALAL UNIVERSITY :

1. Calculus.
2. Linear Algebra.
3. Ordinary Differential Equations.
4. Partial Differential Equations.
5. Principles of Applied Mathematics.
6. Set theory.(Principles of Mathematics, Mathematical logic)
7. Euclidean and Non-Euclidean Geometry.
8. Special Topics in Applied Mathematics (Fluid and Quantum Mechanics).
9. Numerical Analysis.
10. Real Analysis.
11. Complex Analysis.
12. Vectors Analysis.
13. Functional Analysis.

\* AWARDS :

1. Scholarship from Al-Hussein Bin Talal University to study PhD in Applied Mathematics at Michigan Technological University, USA 2002-2006.
2. Erasmus Mundus External Cooperation Window Lot 3 (EMECW3) Scholarship funded by the European Union. For post doctoral degree at Masaryk University/ Czech Republic. Feb/05/2008 - Feb/05/2009.

\* PUBLICATIONS :

1. Adeeb, G., Talafha. Exact Soliton-like Solutions for the (3+1) Dimensions Kadomtsev-Petviashvili and Jimbo-Miwa Equations by the Extended tan and tanh Methods, Global Journal of Pure and Applied Mathematics.Vol 6, Number 3 (2010), pp. 285 292, 2010.
2. Sahar M. Alqaraleh, and Adeeb, G., Talafha. New Family of Exact Soliton Solutions for the Nonlinear Three-Wave Interaction Equations, Journal of Mathematics and Statistics v. 7, issue 1, pp 45-50, 2011.
3. Adeeb G. Talafha. Solving the (3+1) Dimensional Three-wave Resonance Interaction Equations by Generalizing the Extended Tanh Method. Mathematical Sciences Research Journal, 15(7), pp 226-233, 2011.
4. Adeeb G. Talafha and Sahar M. Alqaraleh. Obtaining Analytic Soliton Solutions for the Three-Wave-Interaction Equations by the Extended Tanh Method, Advances in Theoretical and

5. Sahar M. Alqaraleh 1, Feras M. Al Faqih and Adeeb G. Talafha. Constructing a Train of Soliton Solutions for the Three-Wave-Interaction Equations, Applied Mathematical Sciences, Vol. 7, no. 63, 3097 - 3109, 2013.

6. Sahar M. Alqaraleh , Adeeb G. Talafha. A systematic Approach Toward Constructing Novel Solitary Wave Solutions for the Three-Wave-Interaction Equations, International Journal of Computational and Applied Mathematics. Volume 8, Number 2 (2013), pp.139-153

7. Allan, A., Struthers. Adeeb G., Talafha. Inverse Scattering Transform Analysis of Multi-Soliton Solutions of the Three-Wave Interaction of Long Rectangular Pulses. Published PhD Thesis.2006

\* PROJECTS DISCUSSED IN CONFERENCES :

1. An Inverse Scattering Analysis of Pulse Train Generation in the Three Wave Interaction. International conference on Mathematics and Statistics, June 11-12, 2007. Athens, Greece. By : Struthers, A., Michigan Technological University, USA and Talafha, A., Al-Hussein Bin-Talal University, Jordan Organized by : Athens Institute for Education and Research (AT.IN.E.R.)

2. Novel Analytical Solutions of the Three Wave Interaction: Preliminary Results. Petra International Conference on Mathematics, Oct. 23-25 Oct., 2007. By: Adeeb Talafha, Department of Mathematics, Al Hussien Bin Talal University, Ma'an Jordan, And Allan Struthers, Department of Mathematical Sciences, Michigan Technological University, Houghton, United States.

3. Updating the N-soliton solutions formula for the Three-Wave-Interaction Equations.2nd Regional Conference on Applied and Engineering Mathematics 2012 ( RCAEM II-2012), Institute of Engineering Mathematics , University Malaysia Perlis ,Malaysia.

\* REFEREES :

1. Prof: Jehad Jardeen, Department of Mathematical Sciences, Taibah University, Madinah Munawwarah, Kingdom of Saudi Arabia,E-mail: jjaradeen@ahu.edu.jo

2. Prof: Ali A. Taani Department of Mathematics and Statistics, Mutah University , Alkarak, Jordan. E-mail: alitaani@mutah.edu.jo

3. Prof: Shaher M. Momani, Department of Mathematics, The University of Jordan, Amman, Jordan. E-mail: s.momani@ju.edu.jo