Jihad Hasan Jabali Asad
Prof. in Theoretical and Mathematical Physics

Present Address:

College of Applied Sciences,
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Citizenship: Palestinian.

Education:

Ph.D. Dept. of Physics, The University of Jordan, Amman 119 Jordan. June 21 – 2004.
Title: "RESISTANCE CALCULATION OF AN INFINITE NETWORK OF RESISTORS- APPLICATION ON GREEN'S FUNCTION"
Supervisor: "Prof. Dr. Jamil Mahmoud Khalifeh"

M.Sc. Dept. of Physics, An- Najah National University, Palestine. Nov. 23, 1998."Non-Thesis Track"

B.Sc. Dept. of Physics, An- Najah National University, Palestine. July, 24, 1995.

<u>Honors and Awards:</u>

- *PhD thesis was partially supported by the University of Jordan*
- *Distinguished Researcher Award at the University level 2017*
- *Finincal Award - publishing in journals with influence factor 2017, 2018, 2019*
- *Financial Award - Scientific Quote 2017, 2018, 2019*

<u>Professional Experience (academia):</u>

- *Assistant of Dean of Graduate Studies: 1/9/2019- till now*

- *Head of the Dep. Of Physics: 1/9/2016- 31/8/2019*

- *Professor: 7/02/2018 – now. Palestine Technical University-Kadoorie, Palestine*

- *Associate Professor: 15/05/2015 – 6/02/2018. Palestine Technical University-Kadoorie, Palestine*

- *Assistant Professor: 12/08/2013 – 14/5/2015. Palestine Technical University-Kadoorie, Palestine*

- *Associate Professor: 2/2011 – 8/2013. Tabuk University, Tabuk- Saudi Arabia*

- *Assistant Professor: 9/2006 –1/2011. Tabuk University, Tabuk- Saudi Arabia*

- *Assistant Researcher: 10/2005 – 6/2006. Jordan University, Amman- Jordan*

Courses Taught:

Undergrduate Courses

- Electromagnetic Theory I, II
- Mathematical Physics I, II
- Quantum Mechanics I, II
- Classical Mechanics I, II
- Modern Physics I, II
- Statistical Mechanics
- General Physics I, II, III
- General Physics Lab 1, 2

Journals Editorships, and Reviewers:

1-Reviewer, Royal Society Open Scince, Open Journal Published by Royal Society

I had reviewed the following paper:

Comparison of methods to determine point-to- point resistance in nearly rectangular networks with application to a hammock network

2-Reviewer, Chaos, Solitons and Fractals, Elsevier Journal

I had reviewed the following paper:

Fractional Kinetics of Sub diffusion- Limited Decomposition of a Supersaturated Solid Solution

3-Reviewer, AASCIT Communications, American Association for Science and Technology

I had reviewed the following paper:

Dynamic Scalar Potential and the Electro kinetic Electric Field

4-Reviewer, AASCIT Journal of Physics, American Association for Science and Technology

I had reviewed the following paper:

Numerical Solution of Fractional Partial Differential-Algebraic Equations

5-Experimental Results, Editorial Board
(https://www.cambridge.org/core/journals/experimental-results/information/editorial-

board)

6-Reviewer, Kuwait Journal of Science

I had reviewed the following paper:

A Galerkin-Like Approach to Solve Continuous Population Models for Single and Interacting Species

7-Reviewer, Fluid Phase Equilibria

I had reviewed the following paper:

Pseudo lattice theory of electrolyte solutions: consistency analysis of the quasi- random lattice model at infinite dilution

8-Reviewer, the Journal of Applied Mathematics and Computational Mechanics

I had reviewed the following paper:

STURM-LIOUVILLE EIGENVALUE PROBLEM - NUMERICAL SOLUTION USING THE CONTROL VOLUME METHOD

9-Reviewer, AIP Advances

I had reviewed The following Three papers:

Analytic study of a rolling sphere on a rough surface

Analysis of Wrinkled Membrane Structures Based on Wrinkle-Wave Model AcceptedWrinkling reduction of membrane structure by trimming edges

10-Reviewer, Communications in Theoretical Physics

I had reviewed the following paper:

Two-point resistance of a non-regular cylindrical network with a zero resistor axis and two arbitrary boundaries

11-Reviewer, Neural Computing and Applications

I had reviewed the following paper:

A Numerical Algorithm to Determine Curves of Constant Breadth in Euclidean 3-space

12-Reviewer, Modern Physics Letters B

I had reviewed the following paper:

Stability analysis of car-following model on straight and curved road with considering the preceding vehicle's velocity feedback control

13-Reviewer, International journal of Modern Physics B

I had reviewed the following paper:

Exploring the trust management mechanism in self-organizing complex network based on game theory

14- Editorial Board Science Alert's

https://livedna.net/profile.php?dna=962.491

Graduate Work:

1-Thesis Committee Member (Master Thesis) external examinaor:
Critical Behaviour of the Density of Binary Liquid Mixture Cyclohexan- Phenol" by Ghadeer Hussein, An-Najah N. University, Nablus, Palestine, 1/04/2015.

2- Thesis Committee Member (Master Thesis) external examinaor:
Combined Effects of Pressure, Tempreture, and Magnetic Field on Energy States of Donor Impurities in a GaAs/AiGaAs Quantum Heterostructure" by Samah Fayez Abu Zaid, An-Najah N. University, Nablus, Palestine, 19/10/2017.

3-Thesis Committee Member (Master Thesis) external examinaor:
Structural, Electronic, Elastic and Optical Properties in the Full-Heusler Compounds (Zr_2RhGa, Co_2TiSn) using FP-LAPW Method of Teaching Science. by Duha Abu baker , An-Najah N. University, Nablus, Palestine, 1/11/2018.

4-Thesis Committee Member (Master Thesis) external examinaor:
Performance Study of the Inner Tracker (ITK) in ATLAS at the Large Hadron Collider (LHC at the European Origanization for Nuclear Research CERN " (in program of Physics)by"Tharaa Turk" will be defended on Monday 26thAug.2019

Professional Affiliations:

- *Member, American Physical Society (APS)*
- *Member, Institute of Physics (IOP)*
- *Member, IEEE*

Professional Activities:

1- Organizing committee, Third winter School In High Energy physics, An- Najah National University, Nov., 10- 16, 2018, Nablus, Palestine

2- Organizing committee. The 2018 International Symposium on Power Electronics and Control Engineering will be held on Xi'an, China during December 28-30,2018.6th conference

3- Organizing committee. The Sixth Palestinian Conference for Modern Trends in Mathematics and Physics". August 2018 (5-8). Palestine

4- Head of the Physics Dep., 1/9/2016- 31/8/2019

5- Publiccation and Conference Comitteand its awars, member-PTUK-1/9/2016- 31/8/2017.

6- Councile of the College of Arts and Sciences, member. PTUK, 1/9/2015- 31/8/2019

7- Quality Committtee- College of Arts and Sciences- member- Palestine Technical University 2013-2015

8-A lecture in Classical Mechanics II for merc at PTUK 11/2013

9- Master Program Committee, member . Dep. of Physics. PTUK. 2015-2016.

10- Academic advisor. Dep. of Physics. Tabuk University. 2007- 2012.

11- Courses Description Committee. Dep. of Physics. Tabuk University. 2010- 2011.

12- Courses Schedule Committee. Dep. of Physics. Tabuk University. 2010- 2012.

13- Graduate Studies Committee. Dep. of Physics. Tabuk University. 2011- 2013.

14- Master Program Committee, member. Dep. of Physics. Tabuk University. 2011-2012.

15- First Scientific Students Meeting. Referee. Dep. of Physics. Tabuk University. 2011.

16- IOP Academic Accreditation workshop. Dep. of Physics. Tabuk University. 2-3/5/2013.

17-Workshop on "Nano Science". Dep. of Physics. Tabuk University. 20-22/5/2013.

List of Publications:

Citations: 502 by 199 documents   h-index: 15   (reference: Scopus)

Refereed Journals:

1- J. H. Asad, R. S. Hijjawi, A. J. Sakaji, and J. M. Khalifeh. (2004). Resistance Calculation for an Infinite Simple Cubic Lattice- Application of Green's Function. Int. J. Theo. Phys., (43) 11: 2223-2235.

2- R. S. Hijjawi, J. H. Asad, A. J. Sakaji, and J. M. Khalifeh. (2004). Lattice Green's Function for the Face Centered Cubic Lattice. Int. J. Theo. Phys., (43)11: 2299-2309.

3- A. J. Sakaji, J. H. Asad, R. S. Hijjawi, and J. M. Khalifeh. (2004).

Application of the Lattice Green's Functions for Triangular Lattice. *Elec. J. Theo. Phys.*, (1)3: 8-21.

4- J. H. Asad, R. S. Hijjawi, A. J. Sakaji, and J. M. Khalifeh. (2005). Remarks on Perturbation of Infinite Network of Identical Resistors. *Int. J. Theo. Phys.*, (44) 4: 471-483.

5- J. H. Asad, R. S. Hijjawi, A. J. Sakaji, and J. M. Khalifeh. (2005). Infinite Network of Identical Capacitors by Green's Function. *Int. J. Mod. Phys. B.*, (19) 24: 3713-3721.

6 J. H. Asad, R. S. Hijjawi, A. J. Sakaji, and J. M. Khalifeh. (2005). Capacitance between Two Points on an Infinite Grid. *Eur. Phys. J. –Appl. Phys.*, (32) 3:149-154.

7- J. H. Asad, A. J. Sakaji, R. S. Hijjawi, and J. M. Khalifeh. (2006). On the Resistance of an Infinite Square Network of Identical Resistors (Theoretical and Experimental Comparison). *Eur. Phys. J. B*, (52) 2: 365.

8- J. H. Asad. (2007). Differential Equation Approach for One- and Two-Dimensional Green's Function. *Mod. Phys. Letters B*, (21) 2-3. 139.

9- R. S. Hijjawi, J. H. Asad, A. J. Sakaji, and J. M. Khalifeh. (2007). Perturbation of an Infinite Network of Identical Capacitors. *Int. J. Mod. Phys. B*, (21) 2: 199-209.

10- J. H. Asad, R. S. Hijjawi, A. J. Sakaji, and J. M. Khalifeh. (2007). Infinite 2D Square Network of Identical Capacitors with two removed bonds. *Eur. Phys. J. –Appl. Phys.*, (40) 3: 257-264.

11- R. S. Hijjawi, J. H. Asad, A. J. Sakaji, and J. M. Khalifeh. (2008). Infinite Simple 3D Cubic Lattice of Identical Resistors with two Missing bonds. *Eur. Phys. J. –Appl. Phys.*, (41) 2: 111.

12- J. H. Asad. (2009). Analyzing The Capacitance Networks. *Asian J. Applied Sci.*, 2 (3):296- 299.

13- *J. H. Asad*, R. S. Hijjawi, A. J. Sakaji, and J. M. Khalifeh. (2010). Infinite Networks of Identical Capacitors. *Mod. Phys. Letters B*, (24) 7: 695-705.

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Papers published after the promotion to the rank : Associate Professor

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14- Dumitru Baleanu, Ivo Petras, *Jihad H. Asad*, and Maria Pilar Velasco (2012). Fractional pais- uhlenbeck Oscillator. *Int. J. Theo. Phys. Int. J. Theo. Phys.* 51 (4): 1253-1258.

15- *Jihad H. Asad*. (2012). Thermodynamic Functions for Body Centered Cubic Lattice- Application on Lattice Green's Function. *Adv. Studies Theor. Phys.*, (6) 1-4:165-176.

16- Dumitru Baleanu, *Jihad H. Asad*, and Ivo Petras, (2012). Fractional- Order Two- electric pendulum. *Rom. Rep. Phys.*,(64) 4: 907- 914.

17- D. Baleanu, *Jihad H. Asad*, and I. Petras. S. ELAGAN, and A. BILGEN. (2012). Fractional Euler- Lagrange Equation of Caldirola- Kanai Oscillator. *Rom. Rep. Phys.*, (64), supplement: 1171-1177.

18- *J. H. Asad*, A. A. Diab, R. S. Hijjawi, and J. M. Khalifeh. (2013). Infinite Face Centered Cubic Network of Identical Resistors- Application to Lattice Green Function. *The European Physical Journal Plus*. 128 (1): 1-5.

19- A. A. Diab, R. S. Hijjawi, *Asad J. H*, and J. M. Khalifeh (2013). Hamiltonian Formulation of Classical Fields with Fractional Derivatives, revisited. *Meccanica*. 48: 323-330.

20- *J. H. Asad*. (2013). Exact Evaluation of the Resistance in the Infinite Face Centered Cubic *J. stat. Phys.* 150 (6): 1177- 1182.

21- *Jihad H. Asad*. (2013). Infinite simple 3D Cubic Network of Identical Capacitors. *Mod. Phys. Letters B*. 27(15): 1350112.

22-M. Q. Owaidat, R. S. Hijjawi, *J. H. Asad*, and J. M. Khalifeh. (2013).

Electrical Networks with Interstitial Single Capacitor. Mod. Phys. Letters B. 27(16): 1350123.

23- *Jihad H. Asad*. (2013). Analysis of d- dimensional Networks- Capacitance between Two Adjacent Nodes. Journal of Electrostatics. 71 (4): 754-755.

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Papers published after appointment in PTUK
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24- *J. H. Asad*, A. A. Diab, M. Q. Owaidat, R. S. Hijjawi, and J. M. Khalifeh. (2014). Infinite Body Centered Cubic Network of Identical Resistors. Acta Physica Polonica A. 125 (1): 60- 64.

25- Dumitru Baleanu, *Jihad H. Asad*, and Ivo Petras. (2014). Fractional Bateman- Feshbach Tikochinsky Oscillator. Communications of Theoretical Physics. 61 (2): 221-225.

26- *J. H. Asad*, A. A. Diab, M. Q. Owaidat, and J. M. Khalifeh. (2014). Perturbed Infinite 3D Simple Cubic network of identical capacitors. Acta Physica Polonica A. 126 (3): 777- 781.

27- M. Q. Owaidat, R. S. Hijjawi, *Jihad H. Asad*, and J. M. Khalifeh. (2014). The two-point capacitance of infinite triangular and honeycomb networks. *Eur. Phys. J. – Appl. Phys.* Sep. 3, 2014
DOI: http://dx.doi.org/10.1051/epjap/2014140229

28- M. Q. Owaidat, *Jihad H. Asad*, and J. M. Khalifeh. (2014). Resistance calculation of the decorated centered cubic networks: Applications of the Green's function. Mod. Phys. Letters B. 28 (32): 12 pages

29-Dumitru Baleanu, *Jihad H. Asad*, and Ivo Petras. (2015). Numerical solution of the fractional Euler-Lagrange's equations of a thin elastica model. Non- Linear Dynamics. 81(1-2): 97-102

30-*Jihad H. Asad*, R. S. Hijjawi, Eyad Hasan Hasan, A. A. Diab , and J. M. Khalifeh. (2016) Remarks on the lattice Green's Function for the anisotropic Face Centered Cubic Lattice. Acta Physica Polonica A. 129 (1): 52-58.

31- M. Q. Owaidat, *J. H. Asad*, and Tan Zhi-Zhong. (2016). *On the perturbation of a uniform tiling with resistors*. Inter. J. Mod. Phys. B. (30) 24: 1650166 (8 pages)

32- Dumitru Baleanu, Tomasz Blaszczyk, *Jihad H. Asad*, and Mohsen Alipour. (2016). *Numerical Study for Fractional Euler Lagrange Equations of a Harmonic Oscillator on a Moving Platform*. Acta Physica Polonica A. (130) 3: 688- 691

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Papers published after Applying to the promotion of the full prof. rank
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33- M. Q. Owaidat, and *Jihad H. Asad*. (2016). Resistance calculation of infinite three-dimensional Triangular and hexagonal prism Lattices. *The European Physical Journal- Plus*. (131): 309

34- Eyad Hasan Hasan, and *Jihad H. Asad*. (2017). Remarks on Fractional Hamilton-Jacobi Formalism with Second-Order Discrete Lagrangian Systems. *Journal of Advanced Physics*. 6 (3): 430- 433.

35- Dumitru Baleanu, *Jihad H. Asad*, Mohsen Alipour, and Tomasz Blaszczyk. (2017). *Motion of a Spherical Particle in a Rotating Parabola using Fractional Lagrangian*. UPB Scientific Bulletin, Series A: Applied Mathematics and Physics. (79) 2: 183- 192.

36- Zhi-Zhong. Tan, *Jihad H. Asad*, and M. Q. Owaidat. (2017). *Resistance Formulae of a multipurpose n- Step Network with Cross resistors*. International j Circuit Theory and Applications. 45 (12): 1942- 1957.

37- D. Baleanu, *J. H. Asad*, A. Jajarmid, T. Blaszczyke. (2017). *The motion of a bead sliding on a wire in fractional sense*. Acta Physica Polonica A. 131 (6): 1561- 1564.

38- Eyad Hasan Hasan, *Jihad H Asad*. (2017) Remarks on Fractional Hamilton-Jacobi Formalism with Second-Order Discrete Lagrangian Systems. Journal of Advanced Physics. 6(3): 430-433

39- Zhi-Zhong. Tan, Hong Zhu, *Jihad H. Asad*, and Hua Tang. (2017). The characteristic of the equivalent impedance for an $m \times n$ complex impedance network with

an arbitrary boundary.
Front of Inform Technol Electron Eng. 18 (12): 2070- 2081.

40- M. Q. Owaidat, A. A. Al-Badawi, J. H. Asad, and M. Al-Twessi. (2018). Two-Point Resistance on the Centered- Triangular Lattice. Chinese Physics Letters. 35 (2): 020502

41- D. Baleanu, J. H. Asad , and A. Jajarmid. (2018). New aspects of the motion of a particle in a circular cavity. PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, 19 (2): 143-149

42-D. Baleanu, J. H. Asad , and A. Jajarmi. (2018). THE FRACTIONAL MODEL OF SPRING PENDULUM: NEW FEATURES WITHIN DIFFERENT KERNELS. PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A. 19 (3) 2018: 447-454

43- Baleanu, D., Asad, J.H., Alipour, M. (2018). On the motion of a heavy bead sliding on a rotating wire – Fractional treatment. Results in Physics. (11): 579- 583.

44- Khalilia, H., Jarrar, R., Asad, J. (2018). Numerical study of motion of a spherical particle in a rotating parabola using Lagrangian. Journal of the Serbian Society for Computational Mechanics. 12(1), pp. 44-51

45- D. Baleanu, J. H. Asad , and A. Jajarmid. (2019). CLASSICAL AND FRACTIONAL ASPECTS OF TWO COUPLED PENDULUMS. Romanian Reports in Physics. 71(1),103

46- Tan, Zhen; Tan, Zhi-Zhong; ASAD, JIHAD; Owaidat, M . (2019). Electrical characteristics of the $2 \times n$ and $m \times n$ circuit network. Physica Scripta. 94(5),055203

47- Owaidat, M, ASAD JIHAD, and Tan, Zhi-Zhong. (2019).Resistance computation of generalized decorated square and simple cubic network lattices. Results in Physics. (12): 1621- 1627.

48- Baleanu, D., Sadat Sajjadi, S., Jajarmi, A., Asad, J.H. (2019). New features of the fractional Euler-Lagrange equations for a physical system within non-singular derivative operator. European Physical Journal Plus. 134 (4),181

49- M. Q. Owaidat, and J. H. Asad. Resistance calculation of pentagonal lattice

structure of resistors. Comm. Theor. Phys. 71 (8) (2019) 935-938. August 1, 2019

50- Ata Abu_as'ad, Hussein Shanak, *Jihad Asad*. Classical Features of the Motion of a Heavy Bead Sliding on a Rotating Wire. Journal of Theoretical and Applied Mechanics, Sofia. 49 (3) (2019)224-232.

51- *Jihad Asad*, and Olivia Florea. Numerical aspects of the two coupled harmonic oscillators. An. S,t. Univ. Ovidius Constant,a. 28 (1) (2020): 5- 13

52- Amin Jajarmi, Dumitru Baleanu, Samaneh Sajjadi, *J. H. Asad*. A New Feature of the Fractional Euler-Lagrange Equations for a Coupled Oscillator Using a Nonsingular Operator Approach. Front. Phys. 7:196. doi: 10.3389/fphy.2019.00196.

53- Hussein Shanak, Eman Jarrad and *Jihad Asad*. Experimental and theoretical Investigation of Perturbed Infinite Network of Identical Resistors. Journal of Electrical Systems 15 (4) 2019.

54- M. Q. Owaidat, and *J. H. Asad*. Resistance determination of the decorated triangular and honeycomb lattices. Indian Journal of Physics. 2020. In press (published on line 3 July, 2020)

55- Olivia Florea, Hadi khalilia, and *Jihad Asad*. Numerical Study of the Motion of a heavy ball sliding on a rotating wire. Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics, 2020, 13(1), pp. 33-40

56- Asad, J, Mallick, P, Sameei M.E, Rath, B, Mohapatra, P, Shanak, H, Jarrar R. Asymmetric variation of a finite mass harmonic like oscillator. Results in Physics, 2020, 19, 103335

57- Hussein Shanak, Rabab Jarrar, and Jihad Asad. The two- Point Capacitance in FCC Networks. Journal of Electrical Systems. 2020. 16(4):491- 497.

58- Hussein Shanak, Olivia Florea, Noorhan Alshaikh, Jihad Asad. ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING. 2020. 63 (2)- 1-7

59- Amin Jajarmi, Dumitru Baleanu, Samaneh Sajjadi; J. H. Asad. The fractional features of a harmonic oscillator with position-dependent mass. Comm. Theo. Phys. 72 (2020) 055002 (8pp)

60- Akram T, Abbas M, Iqbal A, Asad J. H, Novel numerical approach based on modified extended cubic B-spline functions for solving non-linear time-fractional telegraph equation .
Symmetry, 2020, 12(7), 1154

54- Hussein Shanak, Hadi Khalilia, and Jihad Asad. Numerical Study of Coupled Oscillator System Using the Classical Euler- Lagrange Equations. submitted

Conference Papers Published in Proceedings:

1- Asad J. H., "On the Infinite Simple Cubic Network of Identical Resistors – Theoretical and Experimental Comparison," icsps, pp.1007-1009, 2009 International Conference on Signal Processing Systems, 2009.

2- Asad J. H. 2012. Recurrence Formulae for an Infinite Square Network of Identical Capacitors. International Conference on Software Technology and Engineering (ICSTE 2012). Thailand. Sep. 1-2. P. 201- 206.

3- Asad J. H. 2012.1 Infinite 3D Cubic Lattices of Identical Resistors. Applied Mechanics and Materials Volume 313-314, 2013, Pages 324-328. 2012. 2nd International Conference on Machinery Electronics and Control Engineering, ICMECE 2012; Jinan, Shandong; China; 29 December 2012 through 30 December 2012; Code 96742.

Conference and Workshop and meetings:

1-Condensed Matter and Material Physics (CMMP) Conference, University of Leicester, UK, 12- 13 April 2007.

2- Forth International Conference of Applied Mathematics and Computing

(FICAMC) Conference, Plovdiv, Bulgaria, 12- 18 August, 2007.

3- Condensed Matter and Material Physics (CMMP) Conference, Royal Holloway.
University of London, UK, 26- 28 March 2008.

4- Fifth International Conference of Applied Mathematics and Computing
(FICAMC). Conference, Plovdiv, Bulgaria, 12- 18 August, 2008.

5- Attenending The Second international Conference for Science and
Nanotechnology. An- Najah National University- Nablus- Palestine. 23-
24/3/2016.

6- Attenending The First Palestinian international Conference Peaceful Uses of
Atomic Energy. Palestine Technical University- Tulkarm- Palestine. 19- 20/2/2017.

7- The 6th Conference on Modern Trends in Mathematics and Physics- PTUK- Aug.
5- 8/8/2018
8- Attending the training School fractional calculus   istanbul turkey.........

References:

1-Professor Dr. Jamil M. Khalifeh
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2-Professor Dr. Dia- Eddin Arafah
Department of Physics (Dean of Graduate Studies)
University of Jordan
Amman- 11942, Jordan
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3-Dr. Hussein Shanak

Dean of Graduate Studies- Palestine Technical University- Kadoorie

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