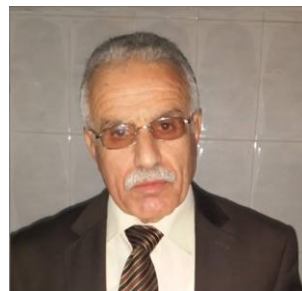


Curriculum Vitae



Musa Ismail Musa El-Hasan, Ph.D.

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00970 9 2325402 (home).

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Email: melhasan@najah.edu

Personal: Date of Birth : DEC. 24th, 1949

Health : Good

Martial status: Married

Citizenship : Palestinian . (Jordanian Passport)

Language : Arabic (mother tongue),English (very good in reading , writing and communications)Turkish (Communicable) .

Education: Ph.D.in physics (Solid state Physics, computational),

Middle East Technical University (METU), Ankara, TURKEY ,
under supervision of Prof. M. Tomak.

Title of Thesis : Description of The Electronic structure of
solids By The Recursion Method . November 1987

M. S.c in physics (Solid state physics , Experimental) Middle

East Technical University (METU), Ankara

TURKEY, under supervision of Prof . M. Ersin Ozsan .

Title of Thesis : Some Electrical And Photoelectrical

Properties of Au- CdS Schottky Diodes and CdS Thin Films

September 1980

B.Sc. in Physics , University of Jordan , Amman Jordan

(1974)

Professional appointments :

- 2010 – Now Associate Professor , Physics Department
An Najah National University ,Nablu s , Palestine
- 2012-2013 ceptical leave to Palestine Technical University Khadori (PTUK)
- 1987 – 2010 Assistant Professor , Physics Department .
An-Najah National University , Nablu s Palestine .
- 1984 – 1987 Teaching Assistant , Physics Department METU, .
Ankara Turkey
- 1981- 1984 Instructor , Physics Department
An-Najah National University . Nablu s Palestine
- 1978 – 1980 Research Assistant, Physics Department METU, Ankara,
Turkey
- 1974 – 1976 High school Physics Teacher , High schools in Nablu s ,
Palestine .

Administration

- (1996-1997 ,2005-2009 , 2011-2012) : Chairman of Physics Department
An-Najah National University
- (2005-2012) : Coordinator for the graduate program
In physics

Professional Activities :

Member of Palestinian Physical Society (PPS) .

1995-1997,2005-2012 : Member of Faculty of science board .

2005-2012 : Member of University board .

1992-1996 : Member of University General Safety
comity in Faculty of science

1987-Present Member and Head of Labs. Development comity
in Physics department .

Founder and member of computational physics
comity in physics department .

1998,2000,2002, Member of the science fair comity in Faculty of

2004,2006 , 2008 Science and head of the comity in Physics .
Department

1997 – 2002, 2005-2012 : Head of Physics Graduate program comity

Research Experience :

Experimental :

I have some experience in thin film evaporation and electrical ,
photoelectrical measurements for semiconductors thin films .

Also preparing and characterizing Schottky diodes on CdS
single crystals .

I did indoor Radon concentration measurements
in some buildings in Nablus city, and Radon concentration
measurements in soil in Arrabeh Jeneen Area

Computational :

I used Recursion Method to study electronic structure and local
density of states for transition metals , semiconductors Si, Ge
and their binary alloys ,

III-V compounds and their ternary and quaternary alloys were also studied using the same method (Recursion). Also FP-LAPW method (WIEN2K Code) is now in use to study III-V nitrides in addition to other III-V compounds and their alloys. We are studying structural, electronic and magnetic properties for these materials.

Current research interest :

Radon concentration in air , water and soil . Electromagnetic wave pollution (mobile phone stations , H.T power lines) . magnetic properties of magnetic semiconductors , or diluted magnetic semiconductors ,(DMS) by Recursion method and FP-LAPW method . Carbon nano tubes and quantum dots

Teaching Experience :

Middle East Technical University (METU):

I taught general physics labs for engineers , PHYS 105 and PHYS106 general physics Labs for physics students and quantum physics Labs PHYS 400

An Najah National University

Solid state physics for both graduate 422551 and under graduate 22371 22471 Graduate Seminar 422591 . Solid state electronics (minor electronics 26331) . Solid state electronics for Electrical Engineering 63464 . Thermodynamics (22241) , Wave and Optics 22221, Modern physics (22242) , Classical Mechanics 22352 Electricity and Magnetism 22351. Computers in Physics 22301 General physics I , II and III (22101 ,22102 and 22203)

All Labs in physics department

(22107,22108 ,22110,22112,22113,22115,22213,22313,and 22413) .

Palestine Technical University Khadori (PTUK)

General Physics I (15020101) and General Physics II (15020102)

General Physics Lab. I (15020105) and General Physics Lab. II (15020106)

Radiation Physics (15020341) ,Solid State Physics (15020471)

Introduction to Biomedical Physics (15020476)

Thermodynamics (15020261)

Physics Lab. I (15020217) Physics Lab. II (15020327) ,Advance Physics Lab. 15020356

Graduation Project

I have good experience in constructing and designing experiments for undergraduate physics labs since I have participated in forming labs in both Physics Department of

An Najah National University and recent established physics department in Palestine Technical University Khadori (PTUK) and preparing lab manuals for these labs and

almost I taught all labs in both departments

Supervisions :

M.Sc . Thesis for Rezek Estate

Title : Electronic structure of some Quaternary Alloys Recursion Method (2000)

M.Sc Thesis for Baseemeh Daas.

Title :First Principle Electronic structure Calculations of Ternary alloys , $BN_x P_{1-x}$,

$Ga_x B_{1-x} N$ and $B_x In_{1-x} N$ (2008)

M.Sc Thesis for Maysa Tayseer Atatrih .

Title : Preparation of Cds/ ZnS Thin Films for photovoltaic purposes (2010)

M.Sc Thesis for Mursi Ardah

Title : Measurement of Radon concentrations in soil in Arrabeh ,Jeneen Area

(In progress)

M.Sc Thesis for Hadeel Abu Ras

Title : The Effect of Light Intensity on Blood Pressure, Heart Pulse Rate , Blood Oxygen Saturation and Temperature of Children in Schools in Jenin City (2012)

M.Sc Thesis of Asmahan Tiryaki

Title : The Electronic Band Structure of Graphene and Carbon Nanotubes (2013)

M.Sc Thesis for Ayham Al Shaer

Title : Thermal Properties of Two Electron Quantum Dot in an External Magnetic Field by Variation Method(2015) (in Progress)

Conferences and workshops :

1-Research workshop in condensed matter, Atomic and

Molecular Physics, 22 June-4 September , 1987 ,ICTP , TRIESTE,

IT AL Y

2-Research workshop in condensed matter , Atomic and ,

Molecular Physics 15 June-8 September 1988,ICTP, TRIESTE,ITALY .

3- Amman second conference on condensed matter, March 20-

24,1989 , Jordan University , Amman JORDAN .

4- Research workshop in condensed matter , Atomic and

Molecular Physics , 18 June -24 September , 1989, ICTP ,TRIESTE,

ITALY .

5-Research workshop in condensed matter , Atomic and Molecular

Physics , 18 June -28September 1990 ICTP , TRIESTE , IT ALY .

6-First symposium on recent developments on computational

condensed matter physics . (16-18) Nov.1992 . Yarmouk University ,

Irbid, JORDAN

7- College on computational Physics (17May-11June) 1993 ICTP

,TRIESTE,ITALY.

8-Research Workshop on condensed matter physics Atoms and

molecular physics 12 June -18August 1995 ICTP,TRIESTE,ITALY.

9-Third Symposium on Computational Condensed Matter Physics (3-5)

Nov . 1997 , Yarmouk University, Irbid, JORDAN .

10-The second Palestinian Physics Symposium (11-12April) 2000,Al-Quds University College of Science and Technology , Abu Dees, Jerusalem PALESTINE

11-Fourth International Conference on Condensed Matter Physics , (18-22April),2000 , Jordan University , Amman , JORDAN .

12- The Palestinian Physics Conference "Condensed Matter and Applications", (3-4May)2000, ,Nablus , PALESTINE .

13-25th International Nathiagali Summer College on Physics and Contemporary Needs ,(26june-16th july),2000,Bhurban , Murree Hills ,PAKISTAN .

14- Second Physics Conference 2007,7 & 8 May 2007 An-Najah , National University Nablus, PALESTINE .

15 Palestinian Conference on Modern Trends in Mathematics and Physics II (2-4August 2010) An-Najah National University Nablus, PALESTINE .

16- International Graduate Conference on Science ,Humanities And Engineering (2011) 4,5 /5/ 2011, An Najah National University, Nablus PALESTINE

List of Publications :

1. The effect of Light Intensity on Blood Pressure , Heart Pulse Rate, Blood Oxygen Saturation and Temperature of Children in Jenin City Schools. An Najah Journal of Research ,vol 29 (2015) (accepted)
2. The Effect of infrared laser on the activation energy of CR-39 Polymeric detectors . G Saffarini , Nidal Dwaikat , **Musa El Hasan**, Faminobu Sato , Yushi Kato and Toshiyuki Iida

Nuclear Instruments and Methods in Physics Research A. 680 (2012) 82-85

- 3- The energy gap of ScN in the rocksalt phase obtained with LAD/GGA+U^{SIC} Approximation in FP-LAPW method. M.S. Abu-Jafar A.M .Abu-Labdeh and **M. El Hasan**, computational materials science , 50 ,(2010),269-273
4. A fast method for the determination of the efficiency coefficient of Bare CR-39 detector , Nidal Dwaikat , **Musa El Hasan** ,Masto Sueyasu Wataru Kada, Fuminobu Sato , Yushi Kato , G. Saffarini , Toshiyuki Iida, Nuclear Instruments and Methods in Physics Research B, 268,(010) 3351-3355
- 5- The Electronic Band Structure of InN , InAs and InSb Compounds Rezek Mohammed , Senay Katircioglu. And **M . El-Hasan** , J.Mater Sci, 43 (2008) 2935-2946
- 6- CR-39 detector compared with Kodalpha film type (R115) in terms of Radon concentration , Nidal Dwaikat ,Ghassan Safarini **Musa El-Hasan** and Toshiyuki Iida , Nuclear Instruments & Methods In Physics Research A 574,(2007) 289
- 7- Energy Gap dependence of anion concentration for GaInAsP Quaternary alloy by recursion method , **M. El-Hasan** and R . Estateh , Mod . Physics . Lett. B, Vol . 18 No.18 (2004) 955.
- 8- Electronic structure of GaInAsP quaternary alloy by the recursion method . **M. El- Hasan** . Int . J . Mod . Physics . B , vol3 ,No. 1 (1999) 97-106
- 9 Electronic structure of GaInAsSb quaternary alloy by Recursion Method , **M. El- Hasan** and H. Alayan , IL NUOVO CIMENTO 20 D .No.12 (1998)1871
- 10- Electronic structure of GaInAs and InAsP by the recursion method

M. El-HASAN (An Najah J. of Res. Vol. III no .9 (1995) 7 .

11- The electronic structure of GaAlAs alloy by the recursion method

M. El-Hasan and M. Tomak. Turkish Journal of Physics 13 (1989) 229-238

12 -The electronic structure of InGaP alloy by the Recursion method

M. El Hasan and M . Tomak, IL NUOVO CIMENTO Vol .

10 D No. 3 ,(1988) 323..

Reports :

1- Electronic Structure of Crystalline NaSn , **M. El-Hasan** and M . Tomak ,

IC/86/273 internal report . ICTP, TRIESTE, Oct. 1986 .

2- Electronic structures of NaSn, **M . El-Hasan** and M . Tomak , IC/87/239 internal report ICTP TRIESTE . August 1987

3- The Electronic structure of Ga AsP and Ga Sb P . Calculated using the recursion method . **M . El-Hasan** and M . Tomak IC/88/330, Internal report ICTP/TRIESTE October 1988 .

References :

1. Prof. Mehmet Tomak, physics Department , METU, Ankara, TURKEY

E-Mail : tomak@metu.edu.tr

2. Prof. Dr. Ghassan Safarini, Physics Department , An-Najah National University , Nablus PALESTINE .

E Mail : Safarini 1 @ yahoo.com, Safarini@najah.edu.

Mobile 00970 599076421

3. Prof. Dr. Mohammad K. El Said , Physics Department , An Najah National University

Nablus , Palestine

E Mail : mkelsaid@najah.edu

Mobile 00970 597036348

4. Dr. Iyad Sadedden (Chairman of Physics Department) , Physics Department

An Najah National University Nablus Palestine.

E –Mail Iyad@najah.edu

Mobile 00970 598310156

5. Dr. Nidal Khaled Dwaikat, King Fahd University for Petroleum and Minerals,
(KFUPM),Dammam ,Saudi Arabia

E Mail ndwaikat@kfupm.edu.sa