■ ملخص عن السيرة الذاتية

- الاسم: د / على محمود عبد التواب على
- الوظيفة : استاذ ورئيس قسم هندسة السيارات والجرارات كلية الهندسة جامعة المنيا
 - ديناميكا السيارات
 - استقرار واتزان السيارات على الطريق
 - تشخيص وإصلاح أعطال المركبات
 - تشخيص وإصلاح أعطال المحركات
 - هندسة السيارات (نظرية تصميم تشخيص إصلاح)
 - محركات الاحتراق الداخلي
 - ثرمودينميك
 - انتقال حرارة
 - مقاومة مواد وتحليل جهادات
 - تصمیم محرکات
 - تصمیم شاسیة
 - الضوضاء في السيارات
 - الاهتزازات في السيارات
 - التلوث البيئي (قياس تحليل معالجات)
 - التحكم الالي (الرقمي -الفولتي)
 - الانظمة البنيوماتيكية والهيدروليكية
 - الصيانة (الدورية الوقائية)
 - الحاسب الالى (لغة البيسك والفورترن والسي)
- تصمي الانظمة الالكترونية للتحكم في منظومات السيارات الحديثة (المحرك التعليق التوجيه صندوق السرعاتالخ)

- حتى الآن تم نشر حوالي 40 بحث متخصص في مجال هندسة السيارات
 - الإنجازات
 - (المشاركة في (مؤتمرات المؤسسة بالرياض)
 - المشاركة مؤتمرات ابحاث الحج
 - المشاركة المجلات العلمية العالمية على سبيل المثال

SAE - VSD -IEEE •

- (رئيس اللجنة العلمية بالقسم)
- (عضو لجنة البحوث في الكلية)
 - المهارات
 - (استخدام الحاسب)
- تصميم برامج الكمبيوتر بلغات مختلفة
- تصميم وصيانة الدوائر الهيدروليكية والهوائية

CURRICULUM-VITATE

Professor Dr. Ali M. Abd-El-Tawwab Ali Head of Automotive and Tractor Eng. Dept. Faculty of Eng., Minia University Minia – Egypt

PERSONAL INFORMATION – GENERAL

Name : Ali M. Abd-El-Tawwab Ali

Date & Place of Birth : 24/11/1962

Present Position : Professor Automotive

and Tractor Eng. Dept.

Faculty of Eng.
Minia University
Minia – Egypt.

Languages : Arabic and English



EDUCATION – QUALIFICATIONS

■ <u>1995</u> : **Ph.D.**

Channel Scheme arrangement between Leeds University in England and Minia University in Egypt. Automotive and Tractor Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. And Mechanical Engineering, Leeds University,

Leeds, LS2-9JT England.

■ 1991-1993 : Research programme in Automotive and Tractor

Engineering Department, Faculty of Engineering,

Minia University, Minia, Egypt.

• 1993-1995 : Research programme Mechanical Engineering,

Leeds University, Leeds, LS2-9JT England.

■ 1991 : **M.Sc.**

Automotive and Tractor Engineering Department, Faculty of Engineering, Minia University, Minia,

Egypt.

■ 1986 : **B.Sc.**

Automotive and Tractor Engineering Department, Faculty of Engineering, Minia University, Minia,

Egypt.

PROFESSIONAL EXPERIENCE

8/2010- present Head of Automotive and Tractor Eng. Dept. Faculty of

Eng., Minia University, Minia, Egypt

8/2000 – 8/2010 Professor, Department of Automotive Technology,

College of Technology - Makkah, Saudi Arabia.

5/2000 - 8/2000Associate Professor, Automotive and Tractor Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. Assistant Professor, Automotive and Tractor 5/1995 - 5/2000Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. 5/2010- Now Professor, Automotive and Tractor Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. 8/1991 - 5/1995Assistant Lecturer, Automotive and Tractor Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. 1986 - 8/1991Instructor, Automotive and Tractor Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt.

RESEARCH INTERESTS

Vehicle Ride Comfort, Active Suspension System Design and Control, Noise and Vibration Control, Computer Programming, Vehicle Mathematical Modeling, Vehicle Performance and Control, Vehicle Pollution Control.

COURSES TAUGHT

- Vehicle Dynamics
- Vehicle handling
- Tractors
- Automotive Design
- Digital control
- Pollution Control
- Hydraulic and pnumatic system
- Compressed natural gas fuelled
- Automobile Maintenance and Repair
- Thermodynamic
- Heat transfer
- Engine design
- Chassis dessign
- Thterght of materaials
- Testing of Vehicle System Performance
- Engines
- Tyres models
- Off road

- Finit element
- Road surface
- Suspension and Steering Systems
- AMBULANCE STRETCHER
- Computer Programming and Application (Fortran and C Languages.....etc.)
- Mechanical Vibration
- Noise

REFERENCES

Professor D.A. Crola

Department of Mechanical Engineering,

Leeds University, Leeds LS2 9JT, UK.

Professor F.M. El-Sayed

Automotive and Tractor Engineering

Department, Faculty of Engineering, Minia

University, Minia, Egypt.

Professor S.A. Abou-El-Seoud

Automotive and Tractor Engineering Department, Faculty of

Engineering, El-Matria, Helwan University, Cairo, Egypt.

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Professor S.M. Mostafa

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Engineering, Minia University, Minia, Egypt.

Dean, College of Technology - Makkah,

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P.O. Box 840, Makkah, Saudi Arabia.

LIST OF PUBLICATION

- 1. "The influence of front axle vibration on vehicle ride comfort" The Bulletin of the Faculty of Eng. And Tech., Minia University, Minia, Egypt 1991.
- 2. "Theoretical prediction of the performance of switchable damper suspension systems" Proceeding of 6 th AMME Confer., 3-5 May, 1994.
- 3. "Semi-Active suspension system with preview control based on a quarter car model" The Bulletin of the Faculty of Eng. And Tech., Minia University, Minia, Egypt, 1994.

- 4. "The experimental investigation of a three-state switchable damper characteristics" The Bulletin of the Faculty of Eng. And Tech., Minia University, Minia, Egypt, 1995.
- 5. "An experimental and theoretical study of a switchable damper" SAE No. 960937, USA, 1996.
- 6. "Adaptive control strategies for a switchable damper suspension system" SAE No. 960939, USA, 1996.
- 7. "Active engine mounting and its influence on vehicle ride comfort" The Bulletin of the Faculty of Eng. And Tech., Minia University, Minia, Egypt, Vol. 15, No. 2 Dec., 1995.
- 8. "Interior car noise characteristics" The Bulletin of the Faculty of Eng. And Tech., Minia University, Minia, Egypt, Vol. 15, No. 2 Dec., 1995.
- 9. "Twin-Accumulator suspension system" SAE No. 970384, 1997.
- 10. "Theoretical prediction analysis for a tractor cab interior airborn noise" Scientific and Mechanical Eng., Ain-Shams University, ISSN 1110-1385, part II: Electrical and Mechanical Engineering Physics and Mathematics, Vol. 32, No. 30, 1997.
- 11. "Engine mount for improving vehicle ride performance" ISTVS Conference Italy, Oct., 1997.
- 12. "Noise control for agricultural tractor cab structure" Al-Azhar Eng. Fifth International Conference (AEIC'97), Dec. 19-22, 1997.
- 13. "A theoretical study for the hydro-pneumatic semi-active suspension system with preview" Heavy Vehicle Systems, Int. J. of Vehicle Design, Vol. 5 No. 2 pp 167-181, 1998.
- 14. "The performance of gasoline and compressed natural gas fuelled passenger car" Engineering and Environment Conference, Faculty of Engineering Ain Shams University, 9-10 May, 1998.
- 15. "Noise prediction within agricultural tractor cab" Proceeding of the 8 th Int. AMME Conference, 12-14 May, 1998.
- 16. "The influence of suspension component on hymen being vibration response" Proceeding of the 8 th Int. AMME Conference, 12-14 May, 19998.
- 17. "Utilizing natural gas fuel to improve engine noise, vibration and emission"
- 18. "Continuously variable damper suspension system" under published in Vehicle System Dynamic
- 19. "Characteristics of agriculture tractor interior noise" Heavy Vehicle Systems Design.
- 20. "Agricultural tractor cab suspension to improve ride comfort" 32 nd ISATA, Vienna, Austria, 14-18 th June, 1999.

- 21. "Application of active suspension system on ambulance stretcher" The First Minia International Conference for Advanced Trends in Eng. MICATE'99, 14-16 March 1999.
- 22. "Vehicle performance and exhaust emission on road" The Tenth International Pacific Conference on Automotive Eng. IPC-10, May 23-28, 1999.
- 23. "Modification of tractor ride vibration model" Third International Conference on Eng. Reasarch ICER,99, Port-Said, 9-11 November, 1999.
- 24. Ali M. Abd-El-Tawwab "AMBULANCE STRETCHER with active control isolator SYSTEM" Journal of Low Frequency Noise, Vibration and Active Control Vol. 20 Number 4, 2001.
- 25. Ali M. Abd-El-Tawwab "Semi-active twin-accumulator suspension system" SAE 2002-01-0985 Detroit, Michigan March 4-7, 2002.
- 26. Ali M. Abd-El-Tawwab "SEMI-ACTIVE TWIN ACCUMULATOR SUSPENSION SYSTEM WITH WHEEL BASE PREVIEW FOR A HALF VEHICLE MODEL" under published
- 27. Ali M. Abd-El-Tawwab "PASSIVE SUSPENSION SYSTEM OPTIMIZATION BASED ON QUARTER CAR MODEL" under published
- 28. Ali M. Abd-El-Tawwab "Effect of rolling resistance on ride comfort and fuel consummation with different tires" under published
- 29. Ali M. Abd-El-Tawwab "New concept of a hydraulic variable damping suspension control to improve vehicle ride comfort" The Bulletin of the Faculty of Eng., Minia University, Minia Egypt, Vol. No. 23, april, 2004.
- 30. Ali M. Abd-El-Tawwab, M.M.M. Salam & K.A. Abd-El-Gawwad "An experimental and theoretical study for advanced hydro-pneumatic passive suspension system" The Minia International Conference in Engineering 2005.
- 31. Ali M. Abd-El-Tawwab and Hilal A. Abdel-Wali "Power Consumption in Hydraulic Active Suspension System" Kuwait International Conference in Engineering 2005.
- 32. Ali M. Abd-El-Tawwab "Twin accumulator semi active suspension system with preview control" under published
- 33. Ali M. Abd-El-Tawwab "PASSIVE SUSPENSION SYSTEM OPTIMIZATION BASED ON QUARTER CAR MODEL" under published

- 34. Ali M. Abd-El-Tawwab "SEMI-ACTIVE TWIN ACCUMULATOR SUSPENSION SYSTEM WITH WHEEL BASE PREVIEW FOR A HALF VEHICLE MODEL" under published
- 35. Ali M. Abd-El-Tawwab "AMBULANCE STRETCHER with active control isolator SYSTEM" under published