

Personal Information

Name: Mohsen Fadle Morsi

Date of Birth: 15-11-1956

,15 May City, Helwan, Cairo, Egypt

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Educational Record

1. **BSC**, Electrical Engineering , May 1980 , Helwan University, Cairo , Egypt.
2. **MSC**, Electrical Machines , January 1985, Helwan University, Cairo , Egypt.
3. **PhD**, Electrical Machines , December 1990 , Yerevan Polytechnical Institute (YrPI), USSR.

Thesis Topics

PhD Thesis: "The Performance and Characteristics of Superconducting Linear Synchronous Motor Including The Harmonics of Mutual Inductances and End Effects".

MSC Thesis: "Synchronous Machines on Variable Frequency Supply".

Associated Professor Article: "Transient and Dynamic Performance of Synchronous Machines"

Fields of Interest

1. Electrical Machines , Power Electronics and Drive.
2. High Speed Ground Transportation and Linear Machines.
3. Network Analysis , Power system and Circuits.
4. Automatic Control Applications in Electrical Machines and Electric Drives.
5. Automatic Control and Measurements.
6. ICDL and ECDL license and course training.
7. Electromagnetic Theories and Energy Conversion Systems.
8. Numerical Analysis and Computer applications in Engineering.
9. Special machines, and Utilization of electrical energy.
10. Quality Assurance and Accreditation applied in the field of Education.

Working Experience with Timing

1. **8/1980 - 2/1986** Instructor at Electrical Power and machines Eng. Dept., Faculty of Eng., Helwan Univ., Cairo , Egypt.
2. **2/1986 - 12/1986** Teaching Assistant , Helwan Univ. , Egypt.
3. **1983 - 1986** Research Assistant for a project investigating

"ECONOMICAL LIGHTING SYSTEM OF HELWAN INDUSTRIAL PLANTS " Sponsored by the ESCU.

4. 2/1986 - 3/1991

A full grant from YrPI (USSR) to join the Electrical Machines group for a PhD program . I jointly conducted with the "RUSSIAN SCIENTIFIC ACADEMIA" an investigation on " New Modeling and Designing for Superconducting Linear Synchronous Motors".

5. 1988 - 1990

Appointed by the Board of YrPI as a Teaching Assistant , for the Graduation project.

6.1/1991 to present

Associate Professor, Helwan Univ. , Egypt.

7. 9/1991 to 11/1994

Part-time teaching as Associate Professor at Electrical Eng. Dept., Benha Higher Inst. of Technology (BHIT), Ministry of Higher Education, Egypt.

8.11/1994 to 9/1999

On leave to Libya, Faculty of Engineering, Omar Almkhtar University as an associate professor.

9. 9/1999 to present

Part-time teaching as Associate professor at Electrical Eng. And Computer Dept., Higher Inst. of Technology, 10th of Ramadan City, Ministry of Higher Education, Egypt.

Teaching Duties and Responsibility

Long and extensive background in teaching at Faculty of Engineering, Helwan university, Cairo, Egypt, Benha Higher Inst. of Technology (BHIT), Higher Inst. of Technology, 10th of Ramadan City, Faculty of Engineering, Omar Almkhtar University, Libya, and YrPI [USSR]. This includes the following courses:

1. Advanced analysis of electrical machines for PhD Candidates, Dept. of Elec. Power and Machines, Helwan University.
2. Special course on electrical machines analysis for MSC candidates (Helwan University).
3. Projects for final year's students (YrPI [USSR] , Helwan University and BHIT [Egypt]).
4. Electrical machines , Energy conversion and Electrical drives (Helwan University).
5. Modeling of electrical machines, Special machines (BHIT).
6. Scientific , Technical and Engineering Reports (BHIT).
7. Network theory (Helwan University).
8. Electrical and mechanical drawing (Helwan University).
9. Programming and computer applications (Helwan Univ. & BHIT).
10. Electrical circuit, Electrical machines, Control of electrical machines, Computer introduction and different level of programming, ICDL and summer

tanning (Higher Inst. of Technology, 10th of Ramadan City, Ministry of Higher Education, Egypt.

11. Electrical circuit, Electrical machines, Control of electrical machines, Computer introduction and different level of programming, Utilization of electrical Energy, Final Grad. project and summer tanning Faculty of Engineering, Omar Almokhtar University

Training Duties and Professional Activities

Participating in many training courses and workshops such as:

1. Summer training course in the Faculty's workshops.
2. Practical industrial training course.
3. Computer training summer courses in Higher Inst. of Technology, 10th of Ramadan City and Helwan University.
4. Many training courses for Libyan's Engineers at Helwan University.
5. Many training courses for Saudi's Engineers at El-Dar El-Arabia for training and Consultation .
6. Prepare the Helwan University's 2-monthes training program, which submitted to the ministry of Education. This program were done for the purpose of re qualifying teachers and technicians staff.
7. Consulting member in the Helwan University team conducting with the industrial plants in the Industrial area of Helwan.

Activity of the Research Work

More than 20 scientific papers were published in different international and local proceeding, conferences and journals:

1. "Modeling of variable frequency fed salient-pole synchronous motors", The International Conference on Electrical Machines (ICEM'86), Munchen, West Germany, Part II, pp. 718-721.
2. "Appraisal of saturation in salient-pole synchronous machines" , The Periodical of Modeling, Simulation and Control, A, vol. 10 , No. 4, Spring 1987, pp. 17-28.
3. "Performance characteristics of superconducting linear synchronous motors (SCLSM) with two field coils including end effects", Scientific Journal in Armenia, YrPI, USSR, 1990.
4. "New model for SCLSM", Bulletin of Engineering Researches, Helwan University, 1992, Vol. 1, pp. 308-324. Accepted also for publication, University Power Engineering Conference UPEC'92 BATH UNIVERSITY, 1992, BATH, ENGLAND.
5. "Contribution to the modeling of SCLSM", Bulletin of Engineering Researches, Helwan University, 1993, Vol. 1, pp. 273-292.

6. "Towards developments of an engineering computing experience", The 3rd International Engineering Conference, AL-AZHAR Univ., AIEC'93, Vol. 11, System and Computer Engineering, pp. 44-55.
7. "An improved dynamics of DC drive using a dither control with integral compensation", AIEC'93, Vol. 6, EE, pp. 129-140.
8. "Microcomputer based bench for electrical drive analysis", Middle East Power System Conference, MEPCON'94, pp.164-168.
9. "A real assessment of synchronous machines dynamic response", First International Conference on Electronics, Systems and Circuits, ICESCS'94, IEEE , December 1994, vol. II, pp. 881-886.
10. "Towards a unified analysis of electrical machines", First International Conference on Electronics, Systems and Circuits, ICESCS'94, IEEE , December 1994, vol. I, pp. 363-368.
11. " Modeling and hardware analog design of variable structure controller applied to DC drives", Bulletin of Engineering Researches, Helwan University, April 1995,vol.4, pp. 337-350.
12. "Small signal stability region determination of synchronous machines via Kharitonov method", 2nd Mansoura International Engineering Conference, Mansoura, Egypt, April, 1997, pp. 35-46.
13. "Contribution to the transient model of 3-phase induction machines", 4th International Conference on Electronics, Systems and Circuits, ICESCS'97, IEEE, December 1997, vol. II, pp. 619-623.
14. "Iterative solution for operating point determination of synchronous machines", 4th International Conference on Electronics, Systems and Circuits, ICESCS'97, IEEE, December 1997, vol. III, pp. 1147-1151.
15. "Problems of industrial lighting system with components of different origins", A seminar in local manufacturing of electrical equipment, Egyptian society of Engineering, Society of EE, Cairo, 15, June, 1998, pp. 5-14.
16. "Problems related to the quality of electricity",
الندوة القومية الرابعة "أفاق ترشيد والحفاظ علي جودة الطاقة وأثارها علي التنمية مع رؤية مستقبلية لاستخدام الطاقة الجديدة المتجددة بمصر", الفترة 5-6 ديسمبر 1999, جامعة حلوان, الصفحات (63-65)
17. "Problems of industrial lighting system with components of different origins"
الندوة القومية الرابعة "أفاق ترشيد والحفاظ علي جودة الطاقة وأثارها علي التنمية مع رؤية مستقبلية لاستخدام الطاقة الجديدة المتجددة بمصر", الفترة 5-6 ديسمبر 1999, جامعة حلوان, الصفحات (156-165).
18. "Robust power system stabilizer", IEE Proc. Electrical Power Application, vol. 147, No. 5, September, 2000, pp. 285-291.
19. "Higher performance technique for a single phase induction motor", The 8th International Engineering Conference, December (24-27), AIEC'2004. AL-AZHAR University Engineering Journal (AUEJ), Vol. 8, No. 3, Jan. 2005, pp. 238-249.

The following papers under publications:

20. "A novel approach for power system reliable stabilization with actuator failure"
 21. "Switched Capacitor Single-phase Induction Motor, Theoretical and Experimental study"
 22. "A Sensor Less Speed Control System of Single phase induction motors"

Administrative Responsibilities

خلال فترة العمل مارست وكلفت ببعض المسؤوليات الإدارية والفنية الهندسية الآتية:

1. أمين قسم الهندسة الكهربائية والالكترونية, كلية الهندسة, جامعة عمر المختار, ليبيا. خلال فترة الإعاره 1997-1999.
2. أمين قسم هندسة القوي والآلات الكهربائية, كلية الهندسة, جامعة حلوان, مصر. خلال الفترة من سبتمبر 2000 وحتى سبتمبر 2005.
3. رئيسا لأحدي لجان النظام والمراقبة الأساسية, كلية الهندسة, جامعة حلوان, مصر, خلال الفترة من سبتمبر 2000 وحتى الآن.
4. عضو لجان النظام والمراقبة المختلفة, كلية الهندسة, جامعة حلوان, مصر, خلال الفترة من سبتمبر 1982 وحتى سبتمبر 2000.
5. المشاركة في الإشراف علي تحديث وإنشاء معامل مختلفة, كلية الهندسة, جامعة حلوان, مصر.
6. المشاركة في الإشراف علي إنشاء معامل مختلفة, كلية الهندسة, جامعة عمر المختار, ليبيا.
7. المشاركة في لجان الفحص والبيت والممارسة المختلفة للأجهزة والمعدات, كلية الهندسة, جامعة حلوان, مصر.
8. عضو لجان استلام المصاعد الكهربائية المختلفة, التي تم إنشائها بجامعة حلوان, مصر.
9. استشاري استلام المصاعد الكهربائية لشركة المقاولون العرب لأحدي أعمال الشركة بمدينة نصر.
10. عضو لجنة كلية الهندسة, جامعة حلوان, مصر, لتحديث اللائحة الدراسية.
11. عضو لجنة كلية الهندسة, جامعة حلوان, مصر, لأعداد لمؤتمر الجامعات المصرية, والذي عقد بجامعة حلوان, مصر في ديسمبر 2001.
12. عضو قسم هندسة القوي والآلات الكهربائية, وعضو الكلية عن تطبيق مشروع اعتماد وجودة التعليم بكلية الهندسة, جامعة حلوان, مصر.
13. ممثل كلية الهندسة, جامعة حلوان طرف الهيئة المصرية العامة للمواصفات والجودة, للمشاركة في وضع المواصفات القياسية المصرية لبعض محركات آلات التيار المتردد.
14. تقييم بعض براءات الاختراع التي تقدم للتحكيم من أكاديمية البحث العلمي.
15. الإشراف علي التدريب الصيفي بالورش, والتدريب الميداني العملي بالمصانع, وبرامج التدريب علي أجهزة الحاسب الآلي لطلاب جامعة حلوان.
16. المشاركة في برامج التدريب الصيفي علي الكمبيوتر لطلاب المعهد العالي الهندسي التكنولوجي بالعاشر من رمضان, كذلك المشاركة في الدورات التدريبية للفنيين العاملين بشركات البترول.
17. المشاركة في برامج الدورات التدريبية لمهندسين ليبيين والتي عقدت بجامعة حلوان.
18. المشاركة في برامج الدورات التدريبية لمهندسين سعوديين والتي عقدت "بالدار العربية للاستشارات والتدريب", مدينة نصر.