

CURRICULUM VITAE

1. PERSONAL DETAILS

NAME: HAMZA AL-SAYED MOHAMMED MAGHRABY
PLACE OF BIRTH: MAKKAH, SAUDI ARABIA
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MARITAL STATUS: MARRIED
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2. POSITIONS HELD

May 5, 2005 – present

Dean, Hafr Al-Batin Community College (HBCC)

Hafr Al-Batin, Saudi Arabia

March 5, 2003 – May 4, 2005

Acting Dean, Hafr Al-Batin Community College

November 4, 2002 – March 4, 2003

Vice Dean, Hafr Al-Batin Community College

From to November 3, 2002

Assistant Professor, Electrical Engineering Dept

KFUPM, Dhahran Saudi Arabia

3. ACADEMIC QUALIFICATIONS:

1. *B.Sc. in Electrical Engineering – 1981*
King Abdulaziz University, Jeddah, Saudi Arabia.
2. *M.Sc. in Electrical Engineering – 1983*
Thesis Title "Steady State Contingency Analysis for Bulk Power System Planning",
King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia.
3. *Ph.D. Reliability Assessment of Power System - 1993*
Thesis Title "Application of Equivalent to the Reliability Evaluation of Composite
Power Systems", University of Manchester science and technology (UMIST), UK.

4. **PROFESSIONAL QUALIFICATIONS:**

Member IEEE (USA)

5. **COURSES TAUGHT:**

EE 201 Electric Circuits,
EE 360 Electric Energy Engineering,
EE 463 Power System Analysis,
EE 527 Reliability Assessments of Power Systems.

6. **INDUSTRIAL CONSULTATION:**

1994 –1998 Saudi Arabian Standards Organisation (SASO)

7. **PUBLICATIONS:**

1. R. N. Allan, M. R. Bhuiyan, S. Skuletic, *H. M. Al-Maghraby*, E. L. Del Carpio Munoz, J. Roman Ubeda, "Studies of the New Brunswick Power System Using UMIST's COMPASS and RELACS Programs", CIGRE Task Force, **Composite Power System Reliability Evaluation, Vol. II 38-03.10-1992, pp.1-12.**
2. A. M. Al-Shehri, I. M. El-Amin, G. Opku, M. Al-Mulhiem, *H. Maghraby*, M. A. Abdulmajeed, "Opportunities for Demand Side Management Programs in Saudi Arabia", Paper **presented** at **Technical Energy Conservation and load management Workshop**, held on 6-7 May 1997, The Engineering Committee in Riyadh, in Cooperation with KACST, IEE & IEEE, Riyadh, K.S.A., Workshop proceedings.
3. *H. M. Maghraby*, A. S. Farag, A. N. Cheema, "Reliability equivalents for adequacy evaluation of large power systems", **Electric Machines and Power Systems Journal**, Vol. 26, No. 5, 507-527, 1998.
4. A. S. Farag, *H. Al-Maghraby*, "Reliability availability studies for industrial power distribution system analysis", Paper **presented** at the **32nd Universities power engineering conference**, held on 10-12 Sept. 1997, Manchester Conference Center, UMIST, Manchester, UK., Conference proceedings.
5. M. H. Shwehdi, *H. M. Maghraby*, "Predicting the Lightning Impulse Strength of Two Series Dielectrics on Distribution Lines using Multiple Regression Technique.", **1997 IEEE Annual Report - Conference on Electrical Insulation and Dielectric Phenomena**, Minneapolis, October 19-22, 1997.

6. M. H. Shwehdi, *H. M. Maghraby*, and Izzularab "Lightning Impulse Strength Estimation of Two Series Dielectrics on Distribution Lines using Multiple Regression Technique.", **Poster paper presented at CEIDP; Electrical Insulation and Dielectric Phenomena**, Minneapolis, October 21, 1997.
7. H. A. M. Maghraby, and R. N. Allan "Application of DC Equivalent To The Reliability Evaluation of Composite Power Systems", **IEEE Transactions on power systems, Vol. 14, No. 1, February 1990.**
8. J. A. Refaee, M. Mohandes, and *H. M. Maghraby*, "Radial Basis Function Networks For Contingency Analysis of Bulk Power Sytems", IEEE Transactions on Power Systems, Vol. 14., No.2,pp. 772-778, May 1999.
9. *H. M. Maghraby*, J. A. Refaee, and M. Mohandes, "Contingency Analysis of Bulk Power System Using Neural Networks", Paper **presented** at the **PowerCon 98 International Conference on Power System Technology**, held on 18-21 Aug. 1998, Beijing, China.
10. M. H. Shwehdi, A.S. Farag, C. A. Belhadj, J. M. Bakhawain, *H. M. Maghraby*, M. A. Izzularab "Distinguish Line Composite Insulators Lightning Estimation Flashover Techniques", **paper presented and granted the best Applied Research Award at GCC/CIGREE Regional Committee for high Voltage Electric Systems, Abu-Dhabi, U. A. E., 28-29, 1998.**
11. *H. M. Maghraby*, "Equivalents Approach to the Reliability Evaluation of Power System", Paper **presented** at **The Fifth Saudi Engineering Conference**, Umm Al-Qura University, held on 1-4 Mar. 1999, Vol. 2, pp. 159-171., Makkah, Saudi Arabia.
12. *H. M. Maghraby*, "Application of DC Equivalents to the Reliability Evaluation of Composite Power Systems", Paper **presented** at **the 5th ISSAT International Conference on Reliability and Quality In Design**, held on 11-13 Aug. 1999, Las Vegas, Nevada, U.S.A.
13. I. M. El-Amin, A. M. Al-Shehri, G. Opku, *H. M. Maghraby*, M. A. Abdulmajeed, "Load Management & Energy Conservation", Paper **presented at GCC/CIGRE Tenth Annual Symposium**, 10-11 Nov. 1999, Jeddah, K. S. A .
14. A. H. M. A. Rahim, *H. M. Maghraby*, "Dynamic Braking Resistor for Control of Sub-Synchronous Resonant Modes", Paper **presented at IEEE Power Engineering Society Summer meeting**, 16-20 July 2000, Seattle, Washington, U.S.A.

15. Osama Ahmed Junnadi, Sadi Assaf, **Hamza M. Maghraby**, and Hamed A. Al-saggaf, "Service Quality Gaps Analysis at SCECO-East, Saudi Arabia", ASCE, Journal of Energy Engineering, Volume 126, Issue 3, pp. 116-131, December 2000.
16. M. H. Shwehdi, **H. M. Maghraby**, and G.K. Al-Bassam "Reliability of photovoltaic (PV) Electrification in Remote Areas", **paper presented at Sharjah Solar Energy Conference**, Sharjah, UAE, February 19- 22nd, 2001.
17. **H. M. Maghraby**, M.H. Shwehdi, G.K. al-Bassam, "Probabilistic Assessment of Photovoltaic (PV) Generation Systems" ", IEEE Trans. On Power Systems, Vol7. 1, No.2, Feb. 2002.
18. A.H.M.A.Rahim, S.A.Al-Baiyat, **H. M. Al-Maghraby**, "Robust Damping Controller Design for a Static Compensator", **IEE Proc.-Generation, Transmission ad Distribution, Vol. 149, o. 4, July 2002.**
19. A.H.M.A.Rahim, and **H.M.Maghraby**, "Control of SSR Oscillations Through a Quasi optimum Dynamic Braking Strategy", Int. J. of Power and Energy Systems. **Paper accepted for publication.**
20. A.H.M.A.Rahim, **H .M. Maghraby**, E.P.Nowicki, "Power System Damping Control through Fuzzy Static VAR Compensator Design Including Crisp Optimum Theory", Journal of Intelligent and Fuzzy Systems. **Paper accepted for publication.**

8. GRADUATE STUDENTS (THESIS SUPERVISION):

1. A. N. Chema, M.Sc. 1994 (KFUPM); Topic: AC-Equivalent for the Adequacy evaluation of Bulk Power System. (Supervisor).
2. Mohammed T. Abbas, M.Sc. 1994 (KFUPM); Topic: Maintenance Scheduling of generating units (Committee member).
3. Hamed A. Al-Saggaf, M.Sc. 1999 (KFUPM); Topic: Measuring Quality in the Service Industry (Committee member).
4. Meshal Abdullah Al-Anazi, M.Sc. 2002 (KFUPM); Topic: Industrial Plants Reliability Evaluation. (Supervisor).

9. RESEARCH INTERESTS:

Development of reliability models and evaluation techniques, both analytical and computational, Modelling and simulation. Application in the planning, design and operation of power systems. Evaluating the impact of systems interruptions on customers in terms of reliability cost/worth, customer outage costs, and the value of lost load.

10. FUNDED RESEARCH PROJECTS:

Peak Load Reduction By Load Management, funded by King Abdulaziz City for Science and Technology (KACST), 1996

11. COMPUTER SKILLS:

Programming in FORTRAN, BASIC, used Windows, (English and Arabic versions), Window 95, Microsoft office. Publishing applications

12. VARIOUS COMPUTERS AND NETWORK USED:

IBM PC Network, Apple Macintosh, HP Workstation, Minicomputers, Mainframe VM/CMS.

13. SHORT COURSES:

1. Power 96/ 14,15 & 16 May 1996 "Intensive Full-Day Seminar! Reliability Assessment Of Power Networks, Dubai. Organised by Institute for International Research "IIR".
2. Member of the Scientific Committee of the IEEEA 97, held on 7-9 December 1997, Batna University, Algeria.
3. February 21-25, 1998 Short Course on "High Voltage Phenomena on Power Systems" SECECO-South, Abha.
4. April 25-29, 1998 Short Course on "Electrical Demand Side Management" KFUPM, Dhahran.
5. November 14-18, 1998 Short Course on "Reliability Assessment of Electrical Distribution System" Saudi Aramco, Dhahran.
6. November 20- December 01, 1999 Short Course on "Substation Operation & Maintenance" SCECO Central, Riyadh.

7. Apr. 29- May 03, 2000 Short Course on "Power System Analysis" KFUPM, Dhahran.
8. August 24 - 28, 2002 Short Course on "Saudi Aramco Power Generation and Distribution" Saudi Aramco, Dhahran.
9. June 12 – 14, 2003 Short course on “Work Ethics” Hafer Al-Batin Community College, Hafr.

14. SHORT COURSES, WORKSHOPS, AND CONFERENCES ATTENDED:

1. POWER'96: Short Course: "Optimizing the Reliability of Transmission & Distribution, High Voltage Technologies, Low Voltage Technologies Reliability Assessment of Power Networks", Organized by: Institute for International Research, May 14-16, 1996 Royal Abjar Hotel, Dubai.
2. Advanced Power Engineering Centre (APEC), Short Course "Modern Energy Management Systems", By DR. Bruce F Wollenberg, Organized by: EEM Advancement Centre PTE LTD, Sep. 16- 20, 1996, Parkroyal Kuala Lumpur.
3. 4th Annual IEEE Technical Exchange Meeting "Role Of Engineering in Industrial development", Organized by: The Saudi Arabia Section of the Institute of Electrical and Electronics Engineers & The electrical Engineering Department of King Fahd University of Petroleum and Minerals, May 20 - 21, 1997, KFUPM, Dhahran, Saudi Arabia.
4. Seminar on: "Inspection and Control Systems of Electrical Installations in Buildings", Jointly Organized by: French Electrical Equipment & Industrial Electronics Manufacturers' Association (Gimelec), and Saudi Arabian Standards Organization (SASO), May 24-25, 1997, Riyadh, Saudi Arabia.
5. 32nd Universities Power Engineering Conference (UPEC'97), Manchester Centre for Electrical Energy, Sep. 10th - 12th, 1997, UMIST, Manchester, UK,
6. 5th Annual IEEE Technical Exchange Meeting "Technology Impact on Industry", Organized by: The Saudi Arabia Section of the Institute of Electrical and Electronics Engineers & The electrical Engineering Department of King Fahd University of Petroleum and Minerals, May 19 - 20, 1998, KFUPM, Dhahran, Saudi Arabia.

7. POWERCON'98 "International Conference on Power System Technology", Jointly Sponsored by IEEE Power Engineering Society (IEEE/PES), and Chinese Society for Electrical Engineering (CSEE) Aug. 18-21, 1998 Beijing, China.
8. Workshop on Efficient Use of Energy, Organized By: United Nations Development Programme (UNDP), King Abdulaziz City for Science and Technology (KACST), Saudi Arabian Standard Organization (SASO), and Engineering Committee, Sep. 9-10, 1998.
9. The Fifth Saudi Engineering Conference, Umm Al Qura University, Makkah, Saudi Arabia. Vol. 2, held on 1-4 Mar. 1999, pp. 159-171.
10. The 5th ISSAT International Conference on Reliability and Quality In Design, Aug. 11-13, 1999, Las Vegas, Nevada, U.S.A.
11. GCC-CIGRE Tenth Symposium on Load Management & Energy Conservation, Organized by: Saudi Consolidated Electricity Company in the Western Region, 10-11 November 1999, Jeddah, Saudi Arabia.
12. 7th Annual IEEE Technical Exchange Meeting, Organized by: Saudi Arabia Section of the Institute of Electrical & Electronics Engineers & Electrical Engineering Department of King Fahd University of Petroleum and Minerals, Apr. 18- 19, 2000, KFUPM, Dhahran, Saudi Arabia.
13. 8th Annual IEEE Technical Exchange Meeting, Organized by: Saudi Arabia Section of the Institute of Electrical & Electronics Engineers & Electrical Engineering Department of King Fahd University of Petroleum and Minerals, Apr. 17- 18, 2001, KFUPM, Dhahran, Saudi Arabia.
14. Power System Reliability and Risk Assessment. Sponsored by: Georgia Institute of Technology, Iowa State University, Texas A&M University. Presented by: PSERC, Apr. 25- 27, 2000, Iowa State University of Science and Technology, Ames, USA.
15. Discussion Forum on "Students Learning at KFUPM: Challenges and Opportunities", Academic Development Center, March 25, 2001, KFUPM, Dhahran, Saudi Arabia.
16. Workshops on "Preparing to Teach: Instructional Development Program for Recently Appointed Faculty", Academic Development Center, Aug. 26, 2001, KFUPM, Dhahran, Saudi Arabia.
17. Workshops on "Striving for Excellence in University Teaching and Learning", Academic Development Center, Aug.. 27, 2001, KFUPM, Dhahran, Saudi Arabia.

18. Workshops on “The Role of the Department Head in Sustaining and Improving the Quality of Teaching”, Academic Development Center, Aug.. 28, 2001, KFUPM, Dhahran, Saudi Arabia.
19. Workshops on “Enhancing Student Learning at KFUPM”, Academic Development Center, March. 26, 2002, KFUPM, Dhahran, Saudi Arabia.
20. Workshops on “Introduction to WebCT”, Academic Development Center, July 14, 16 ,21, and 23, 2002, KFUPM, Dhahran, Saudi Arabia.
21. Workshops on “How to be an Effective University Teacher, Presented by Prof. Hennyry Irvine Ellington, Education and Training Consultant, Robert Gordon University, U.K.”, Academic Development Center, Sept. 07 - 08, 2002, KFUPM, Dhahran, Saudi Arabia.
22. Workshops on “Increasing Effectiveness as a University Teacher, Presented by Prof. Hennyry Irvine Ellington, Education and Training Consultant, Robert Gordon University, U.K.”, Academic Development Center, Sept. 09-11, 2002, KFUPM, Dhahran, Saudi Arabia.

15. AWARDS:

1. The prize for the best applied research as a member of a team submitted to CIGREE/GCC, 1998.
2. The prize for the best applied research as a member of a team submitted to CIGREE/GCC, 1999.

16. INTERESTS:

Enjoy Community services, Education Counseling, Travel, Swimming.