

# CURRICULUM VITAE.



**Name:** MUKHTAR AHMAD  
**Father s name:** Hafiz Mushtaq Ahmad

**Date of birth:** March 22,1948

**Current Position and Address:** Dr. Mukhtar Ahmad  
Professor , Department of Electrical Engineering  
Aligarh Muslim University , ALIGARH 202002,  
INDIA  
email; mukhtar@ieee.org

Tel. 91-571-2401138 , mobile +91- 9837291749

**Mailing Address:**

Dr. Mukhtar Ahmad  
4 / 1307 New Sir Syed Nagar  
ALIGARH 202002 INDIA

## EDUCATION

Degree	Year	University	Specialization
B.Sc. Eng.	1969	A M U India	Electrical Eng
M.Sc Eng	1972	AMU India	Meas.& control
Ph.D	1991	AMU India	Power System

## 1. PROFESSIONAL EXPERIENCE:

(i) Working *as professor in* Department of Electrical Engineering Aligarh Muslim University Aligarh from **July 1998** till date.

(ii) Worked as *Associate professor* in Multimedia University Malaysia from **Jan.3, 2001** to Feb.11, **2002.**( on deputation from AMU)

(iii) Worked as *Associate Professor* in the Department of Electrical and Electronic Engineering ,Faculty of Engineering University Putra Malaysia **Feb.13,1997** to **Feb.12, 1999.**( on deputation from AMU)

(iv) Worked As Reader in the department of Electrical Engineering AMU Aligarh from **1985 to 1998.**

(v) Worked As lecturer in the department of Electrical Engineering AMU Aligarh from **1972 to 1984**.

(v) Served on deputation at The Polytechnic Owo Nigeria from Jan.1982 to Jan.1984.

### **RESEARCH EXPERIENCE:**

Guided Fifteen M.Sc. Engineering dissertations on the following areas; Microprocessors, Power system, Power electronics, Electrical Drives. Instrumentation

Membership of Learned Societies : *Senior Member ,IEEE*

### **SPONSORED RESEARCH PROJECTS;**

Council of Scientific and Industrial Research Government of India sponsored research project on "*Speed Control of very low speed drives using a microprocessor*" was awarded in Dec. 1,1985 and Successfully completed in Feb.1989.

### **Biographical Listings**

- 1 Listed in Marquis Who's Who in the Science and Engineering 2006
2. Listed in Marquis Who's Who in the Science and Engineering 2007 ( To Appear)
3. Listed in Marquis Who's Who in the World 2007 ( To appear)

### **SUBJECTS TAUGHT**

#### **Under graduate Courses ;**

Power Electronics, Logic Circuit and Computers, Microprocessor, microController,; Electric Power System, Electrical machines, Electric Drive, Operating System, Mathematics.

#### **Post Graduate Courses;**

Power System Stability, Electric Drive, Power System Analysis, Power System Operation and Control, Power Electronics, Microprocessor based System Design, Optimization Techniques

### **ADMINISTRATIVE EXPERIENCE ;**

- Member Incharge of University electricity Department Since Feb.2004. to Sep 2006.

- **Convener of Engineering college Alumni Meet 2003 and 2005**  
Provost Sulaiman Hall from June 27,2000 to Nov.28,2000.
- **Organizing Secretary of ALL INDIA SEMINAR on Power Electronics and Applications** AMU Aligarh November 1995.
- Worked as Honorary In charge of Engineering College Library and BOOK BANK from October 1989 to Dec. 1990.
- Provost of Sir Syed Hall (south) from December 1990 to April 1992.
- Member Incharge of University Electricity Department from June 1992 to September 1992'

### ***Other Academic Assignments***

- Member Editorial board of IETECH journal of Electrical Analysis
- Member Editorial board of Scientific Journals International Electrical, mechanical Manufacturing and Aerospace Engineering
- Member International Advisory board of International conference on Information and communication Technology in Electrical Sciences To be held in MGR university Chennai in Dec.2007
- Member of International Scientific Committee of the 2006 WSEAS International conference on ENGINEERING EDUCATION Athens, Greece
- Member of International Scientific Committee of the 2004 WSEAS International Workshop on ENGINEERING EDUCATION
- Member of International Scientific Committee of the 2005 WSEAS International conference on ENGINEERING EDUCATION Athens, Greece
- **Reviewer** for IEEE Transaction on *Energy Conversion* Since 2001
- **Reviewer** for IEEE Transaction on *Power delivery* since 2001
- **Reviewer** for *IEEE POTENTIALS* Since 2005
- **Reviewer** for *IEEE Transaction on Education* Since 2005
- Reviewer for Journal of Sultan Qaboos University Muscat, Oman 1996
- Moderator for All India Civil Services Examination conducted by UPSC
- Member Executive Council ( Senate) AMU Aligarh ( June2000 to Nov.2000)
- Member Academic Council AMU Aligarh 1992 to 1994 and June 2000 to Nov 2000
- **PUBLICATIONS;**  
**Books/Monographs:**
- **HIGH PERFORMANCE AC DRIVES** *Publisher Springer Verlag Germany To appear in 2007*

**INDUSTRIAL DRIVES published by Macmillan India Limited**  
1996. ISBN: 0333924584

**Papers and Articles: List Attached'**

**LIST OF PUBLICATIONS**

**In Refereed JOURNALS**

- 1..Mukhtar Ahmad, 'A Simple Scheme for loss Angle Measurement of a Capacitor' [IEEE Transaction on Energy Conversion](#) Vol.19 No.1 March 2004 pp228-22
2. Norman bin Mariun, Eyad M Radwan, Ishak bin Aris and Mukhtar Ahmad, "Considerations on the design and construction of a Switched Mode PWM converter for Electric Vehicle Application" [Elektrika IEEE Journal of Electrical Engineering Malaysia](#) Vol.2 No.2, September 1999.
3. Zakir Husain and Mukhtar Ahmad," An Electronic Relay for Frequency actuated Load Shedding" [Journal of Institution of Engineers \(India\)](#) JIE 1994, Vol.75, pp.153-155.
4. Zakir Husain and Mukhtar Ahmad,"A Digital Power Frequency Deviation meter for Power system Applications" [Journal of Institution of Engineers \(India\) JIE](#), Vol.73, 1992 pp168-171
5. Mukhtar Ahmad," Measurement of Power System Frequency Deviation using a Microprocessor" [International Journal of Electronics \(UK\)](#) 1990,pp.161-164.
6. Mukhtar Ahmad, "Power system Frequency Deviation Measurement using an Electronic Bridge" [IEEE Transaction on Instrumentation and Measurement](#) 1988, Vol.37, No.1, pp.147-148
7. Mukhtar Ahmad, Wasim Ahmad and Zafar Ahmad," A Digital Tachometer for fast detection of Speed Variation in Kiln Drives" [IEEE Transaction on Instrumentation and Measurement](#) 1987 Vol.36No.3 pp.844-846.
8. Wasim Ahmad and Mukhtar Ahmad," A Potentiometric Transducer for the Measurement of very Low Speed" [IEEE Transaction on Instrumentation and measurement](#) 1985, Vol. 34 No.3, pp.170-171
9. Mukhtar Ahmad,"A Digital Tachometer for Measurement of low Speeds", [Proceedings IEEE](#) 1984 Vol.72, No.8, pp1096
10. Mukhtar Ahmad and Nasiruddin,"Application of Doubly fed Induction Motor in Power System State Measurements" [IEEE transactions on Industrial Electronics](#) 1984, Vol.31 No.1pp26-27
11. Mukhtar Ahmad , "Minimisation of Swings in Power System using Auto-reclosing breakers " [Proceedings IEEE \(USA\)](#) 1980, Vol.68 No.7 pp940-942.
12. K.P.Basu and Mukhtar Ahmad,"Improvement of Transient Stability of Sequentially Switched Autoreclosing circuit breaker, " [Electrical Power System Research \(Switzerland\) vol.2, No3pp.215-219\(1979\)](#)

13. Mukhtar Ahmad , "A Brushless Excitation System for Alternator using Thyristor. " [IEEE Transactions on Industrial Electronics and. Control Instrumentation](#) Vol. IECI 26 No.3 Aug.1979 pp198.

14. K.P. Basu and Mukhtar Ahmad. "Application of Sequential Switching for Improvement of Transient Stability Limit" [Proceedings IEE \(U K\)](#) Vol.123 No.5 May 1976 pp443-444

## II. PAPERS PRESENTED IN INTERNATIONAL CONFERENCES / SEMINARS /SYMPOSIA

15 . Mukhtar Ahmad,, ‘Review of Shunt Active Power Filter Control Strategies’ Accepted for presentation in [EPE 2007](#), Denmark Sep.2-6 2007

16. Mukhtar Ahmad,, “A Doubly Fed Induction Motor as Very Low Speed Drive “ [IEEE International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth-2006](#) **New Delhi Dec 12-15 , 2006.**

17. Mukhtar Ahmad “POWER ENGINEERING EDUCATION FOR FUTURE" in [ICEE2006](#), [International Conference on Engineering Education.](#), and in publication in the proceedings. in Saudi Arabia in March 2006

18 Mukhtar Ahmad, Simplified circuit model of UPFC inserted transmission line for power system studies” [ICCCP 2005 Muscat Oman](#), Feb. 14-16, 2005

19. Mukhtar Ahmad, "A digital Frequency Relay for Over/Under Frequency Detection" [IEEE Region 10 International Conference on Energy. Computer, Communication and Control](#), New Delhi, India 1991

20 MS J Asghar and Mukhtar Ahmad," A novel Scheme for Measurement of Line Frequency and its Deviation" [International Conference on Signal and Systems AI](#)in, UAE, 1990

21. 'Mukhtar Ahmad,"Power System Stability Enhancement Without Resonance Risk" [International Federation of Automatic Control Symposium on Automation and Instrumentation](#) 1986, Bangalore, India"

22. Mukhtar Ahmad and Wasim Ahmad, "Load Angle Measurement of Synchronous Machine Using Digital Techniques" International Symposium on Instrumentation Jan, 1978 Calcutta India, also published in the Proceedings'

## III.PAPERS PRESENTED IN NATIONAL SEMINARS/ CONFERENCES /SYMPOSIA

23.Mukhtar Ahmad and Abdul shafey."A Doubly Fed Induction Motor as High Power Servo drive" Recent advances In Servomechanism, National Conference, Trivandrum, 1980

24.Mohibullah and Mukhtar Ahmad,"Magneto Hydrodynamic Energy for

Electric Power Generation" IEEE XI Annual Convention and Exhibition on " Technology for the People" Calcutta,1984

25. **Mukhtar Ahmad** and Abdul Shafey, "Measurement of Capacitance with Electronic Bridge Using Operational Amplifier" IV All India Seminar on Instrumentation, Aligarh, 1985.

26 .**Mukhtar Ahmad**, "A Microprocessor based Power Frequency Deviation Measurement Scheme" National Conference on Microprocessor Applications in Power System, Nagpur, 1988

27 .**Mukhtar Ahmad**, "A Digital Power Frequency Relay" Sixth National Power System Conference, Bombay, 1990

28 .Hafizur Rehman and **Mukhtar Ahmad**, "A Single phase to 3- ph Cycloconverter for Low Speed Induction Motor Drive" All India Seminar on Power Electronics and Applications, Aligarh, 1995

29 . **Mukhtar Ahmad**, "Advances in Power Electronics" All India Seminar on Power electronics and applications, Aligarh.1995

#### **IV.CIRCUIT IDEAS/ POPULAR ARTICLES**

(30). **Mukhtar Ahmad**, " " Cryptography and Spread - Spectrum Communication" Science Reporter, Vol. 23, No.7, 1986

(31). **Mukhtar Ahmad**, " Magnetically Levitated trains" Science Reporter Vol.23, No11, 1986

(32). **Mukhtar Ahmad**, " Heat Pumps for Water Heating," Science Reporter, Vol. 24, No.1, 1987

(33) .**Mukhtar Ahmad**, "Optical Fibers in Communication" Science Reporter, Vol.24, No.9, 1987

(34) .**Mukhtar Ahmad**, "Computer Memory", Science Reporter, Vol.26, No.1, 1989

(35). **Mukhtar Ahmad**, "Optical Fiber Communication" Book Talk, Bulletin published by Wiley Eastern India, April 1988.

- (36). **Mukhtar Ahmad** ,"Semiconductor Memories" Science Reporter, Vol.27, No.3 March, 1990
- (37) **.Mukhtar Ahmad,**" A Simple Capacitance Measurement bridge", Electronics For You, Vol.22, No.7, July 1990. Also in Electronics for You Projects Vol.X
- (38) **Mukhtar Ahmad** ," Linking The Continents" Hindustan Times (Daily News paper), Oct. 26, 1994
- (39). **Mukhtar Ahmad,**" Modern Power Semiconductor Devices" Electronic Products Finder, Vol.11, No.1, Jan.1995, pp.71-73
- (40) **Mukhtar Ahmad,**"Power Electronics Technology in Transmission and Distribution of Power, Electronic Products Finder, Vol.12, No.7, July, 1996,pp.4-8
- (41) **Mukhtar Ahmad** , " Microcontrollers" In Electronic Product Finder" Feb.2000.
- (42) **Mukhtar ahmad,** " What Are carbon Nanotubes" Science Reporter April 2005.
- (43) **Mukhtar Ahmad** " **Power Quality Monitoring**" in **Energy Pulse April 2003**
- (44) **Mukhtar Ahmad** , " **Restructuring the Indian Power sector**" **Energy Pulse July 2003**
- (45).. **Mukhtar Ahmad** " **Broadband Over Power Line,** " **Science Reporter June 2006**

#### **CITATION RECORD OF MUKHTAR AHMAD**

##### **Paper**

**Wasim Ahmad and Mukhtar Ahmad," A Potentiometric Transducer for the Measurement of very Low Speed" IEEE Transaction on Instrumentation and measurement 1985, Vol36 No.3, pp.844-846.**

##### **Documents that cite this paper**

1.G.P. Hancke, and C.F.T. Vilogen, “The microprocessor Measurement of low value Rotational speed and acceleration” **IEEE Transaction on Instr. And Meas.** Vol.39,No.6 1990 pp1010-1014

2. X.Li and C. M. Meijer, “ A New Method for the Measurement of Low speed using a Multiple-electrode Capacitive Transducer” **IEEE Transaction on Instr. And Meas.** Vol.46, March 1997, pp 636-639

3. X.Li and C. M. Meijer “ A Novel Low Cost Non-contact resistive Potentiometric sensor for Measurement of Low speeds” **IEEE Transaction on Instr. And Meas.** Vol.47 june 1998, pp 776-781

#### **Paper**

**Mukhtar Ahmad, “ A Digital Tachometer for Measurement of Very low speeds”** *Proceedings IEEE Vol.72 ,august 1984, pp 1096*

#### **Documents that cite this paper**

1.G.P. Hancke, and C.F.T. Vilogen, “The microprocessor Measurement of low value Rotational speed and acceleration” **IEEE Transaction on Instr. And Meas.** Vol.39,No.6 pp1010-1014

#### **Paper**

**M. Ahmad , W.ahmad, and Z. ahmad, “ A Digital Tachometer for fast detection of speed Variation in Kiln drives” IEEE Transaction on Instr. And Meas. Vol 36, sep 1987 pp.846-847.**

#### **Documents that cite this paper**

1.G.P. Hancke, and C.F.T. Vilogen, “The microprocessor Measurement of low value Rotational speed and acceleration” **IEEE Transaction on Instr. And Meas.** Vol.39,No.6 pp1010-1014

#### **Paper**

**K.P. Basu and M . Ahmad, “Aapplication Of sequential switching for Improvement of the Transient stability Limit” *Proceedings IEE May 1976 pp 443-444***

#### **Documents that cite this paper**

R.L.Kresap, C.W. Taylor and M. J. kreipe, “ Discussion on their paper in **IEEE Tansaction on Power apparatus and Systems** 1980 p 753.

## Paper

Mukhtar ahmad, “ power System Frequency deviation Measurement Using an electronic bridge” **IEEE Transaction on Instr. And Meas.** Vol.37 1988 pp 147-148

## Documents that cite this paper

1. T. S. Rathore, “ Digital Measurement Techniques” **Book Published by Narosa Publication House New Delhi 1996 p 79**

2. Frequency deviation measurement based on two-arm  $\Delta$  /  $\Sigma$  modulated bridge

Zrilic, D.G.; Pjevalica, N.U.

**Instrumentation and Measurement, IEEE Transactions on**

On page(s): 293- 299 Volume: 53, Issue: 2, April 2004

3. V Agarwal, M Shukla, D Seshachalam,” [A Novel Technique for Indication of Power Frequency Deviation](#) -Fourth IASTED International Conference on Modelling, ..., 2004 - [actapress.com](http://actapress.com)

