

# Detailed C.V. of Prof. Marzouk Ibrahim



## **BACKGROUND DATA**

Full Name : Mohamed Marzouk Mohamed Ibrahim.  
Date & Place of Birth : 10 April 1937, Alexandria, Egypt.  
Nationality : Egyptian  
Last Position : Prof. and Chairman of Electronics and  
Communication Engineering Department, Faculty  
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**The following C.V. includes:**

- (1) Academic Degree,**
- (2) Positions held,**
- (3) Academic Honors & Administrative Experience,**
- (4) Teaching,**
- (5) Research Scholarships,**
- (6) Establishment of Specialized Laboratories, Studies, and Research Contracts,**
- (7) Conferences ,**
- (8) List of Publications,**
- (9) Names and Addresses of References.**

## **1. ACADEMIC DEGREES**

1. **B.Sc. Eng.** ( Distinction with Honour, Electronics & Communication Section) Elect. Eng. Department, Faculty of Engineering, **Alexandria University**, Alexandria, Egypt, June **1960**.
2. **Doctor-Ing. Degree**, Institute for High-Frequency-Technique and High-Frequency-Physics, **Technical University of Karlsruhe**, Karlsruhe, **Feb. 1966**.

## **2. POSITIONS HELD**

1. Research Assistant at the E.E. Dept., Faculty of Eng., Alexandria University, **Oct. 3, 1960**.
2. Member of a Governmental Scholarship (Faculty of Eng., Ain Shams University, Cairo) to the German Federal Republic from **Dec.16, 1961 to Oct. 16, 1966**.
3. **Assistant** at the Elect. Eng. Dept., Faculty of Eng., **Ain Shams University**, Cairo, **Oct. 17, 1966**.
4. **Assistant Prof.**, E.E. Dept., same University, **Feb. 1, 1967**.
5. **Associate Prof.**, E.E. Dept. same University, **Dec. 31, 1972**.
6. **Visiting Assoc. Prof.**, E.E. Dept., College of Eng., **Riyadh University**, Riyadh, Saudi Arabian, Sept. 1, **1973** to July 16, **1977**.
7. **Professor of Electronics & Communication**, E.E. Dept., Faculty of Engineering, Ain Shams University, **from Dec. 31, 1977**.
8. **Head of Electronics & Computer Engineering Department**, Faculty of Engineering, Ain Shams University from Oct. 5, **1981** to 20 Sept. **1983**.
9. **Visiting Prof.**, E.E. Dept., Faculty of Engineering, **United Arab Emirates University**, Al-Ain, Abou Dhabi from 21 **Sept. 1983** to 11 **June 1984**.

10. **Chairman** of Electronics & Communication Section, Electronics and Computer Eng. Dept., Ain Shams University, from 12 June **1984** till 25 Aug. **1986**.
11. **Visiting Prof.**, Physics Department, Faculty of Science, **King Abdulaziz University**, Jeddah, Saudi Arabian, 26 Aug. **1986** to 2 July **1989**.
12. **Head of Electronics & Computer Eng. Dept.**, Ain-Shams University, from 9 Feb. **1991** till 25 April **1992**.
13. **Head of Electronics & Communication Engineering Dept.**, Ain Shams University, from 26 April **1992** till 27 Jan. **1994**.
14. **Chairman** of Electronics & Communication Section, Electronics and Communication Eng. Dept., Ain Shams University, from 28 Jan. **1994** till 17 Jan. **1997**.
15. **Head of Electronics & Communication Engineering Dept.**, Ain Shams University, from 18 Jan **1997** till 31 July.

### **3. ACADEMIC HONORS AND ADMINISTRATIVE EXPERIENCE**

1. Obtaining **B.Sc.** in Electrical Engineering, **Distinction with Honour**, 1960, Alexandria University, Alexandria, Egypt.
2. Member, **Syndicate of Egyptian Engineers**, Since **1960**.
3. Member of Committee of **Electronics & Applied Physics**, Egyptian Academy of Science & Technology, Cairo, Since **1969**.
4. Member of the **International Technology Institute (ITI)**, Pittsburgh, USA, Since **1976**.
5. **Chairman of Electronics & Communication Section**, Faculty of Eng., Ain Shams University, **Since 1977**.
6. Member of Board of directors of the **Center of Information Systems**, Faculty of Eng. Ain Shams University, **1978-1981**.
7. **Chairman** of " Applied Technology and Sciences " Section, Center of Public Service, Ain-Shams University. This Section concerns with the technology of maintenance and repairing in the fields of : Electronics, Radio, TV, Refrigeration, Air-Condition, and Motor-Cars, **1979-1983**.
8. Member of Committee of Referees on the Scientific Activities of Professors and Associate Professors and Teaching University Staff in the fields of:
  - (a) Electronics & Communication,
  - (b) Computers & Automatic Control, **since 1979 ( 4 Committees )**.
9. **Head of Electronics & Computer Eng. Dept.**, Faculty of Eng., Ain-Shams University, **1981-1983**.

10. Awarded " **State Prize in Engineering Sciences** ", Egyptian Academy of Science and Technology, Cairo, **1982**.
11. Awarded " **Decoration of Sciences & Arts of the First Order** ", from the President of Arab Republic of Egypt, **1984**.
12. **Senior member** of the Institute of Electrical and Electronics Engineers (**IEEE**), New York, USA, since **1986**.
13. Member of board of directors, National Telecommunication Institute "**NTI**", Cairo, Egypt.
14. Member of Committee " **National Radio Science** " in Egypt, world known as "URSI", and Chairman of E-Section.
15. **Head of Electronics & Computer Eng. Dept. Faculty of Eng.**, Ain Shams University, from Feb. **1991** till 25 April **1992**.
16. **Head of Electronics & Communication Eng.**, Dept., Faculty of Eng., Ain Shams University, from 26 April 1992 till 17 Jan. 1994.
17. **Head of Electronics & Communication Eng. Dept.**, Faculty of Eng., Ain Shams University, from 18 Jan. **1997** till 31 July.
18. Member of Committee of Refferries on the Scientific Activities of Professors and Associate Professors and Teaching University Staff in the fields :  
Electronics, Communication, Electrical Measurements, and Biomedical Engineering, since **Feb, 1998**.

## **4. TEACHING**

### **1. Undergraduate Courses**

Electronic Engineering  
Electronic Circuits  
Digital Electronics & Computers  
Electric Circuit Theory  
Communication Engineering  
Microwave Electronic Engineering  
Electrical Testing  
B.Sc. Projects

### **2. Postgraduate Courses**

Solid State Electronics  
Integrated Circuits  
Design of Integrated Circuits  
Application of Linear & Digital ICs

Semiconductor Devices & Wave Shaping Applications  
Active Circuits  
Color TV Systems & Technology  
Diploma Projects

## **5. RESEARCH SCHOLARSHIP**

1. Awarding a Summer Scholarship from the German Academic Exchange Service (**DAAD**) for 3 months in the period from July-Sept. **1976** at the Communication Institute of the Technical University in Hannover (**Prof. Dr.-Ing. K.-H. Loecherer**), **West Germany**.
2. Awarding a Summer Scholarship from the **UNESCO** to attend the International Symposium on " Multi-User Communication and Data Networks, Theory and Applications " which was held in **Udine (Italy)**, July 14 - Aug. 4, **1978**.
3. Awarding a Summer Scholarship from the German Academic Exchange Service (**DAAD**) for 3 months in the period from July-Sept. **1979** at the Communication Institute of the Technical University in **Braunschweig (Prof. Dr. Ing. H.-G. Unger)**, **West Germany**.
4. Awarding a Summer Scholarship from the International Center for Mechanics and Sciences in **Udine (Italy)** to attend the International Symposium on " Signal Processing " in the period July 23 - Aug. 4, **1980**.
5. Awarding a Summer Scholarship from the German Academic Exchange Service (**DAAD**), for one month Aug. **1981** at the Communication Institute of the **Technical University in Braunschweig, West Germany**.
6. Awarding a Summer Scholarship from the International Center for Mechanics and Science in **Udine (Italy)** to attend the International Symposium on " Secure Digital Communication " in the period June 7-18, **1982**.
7. Invitation from the **French Government** to visit the **University of Grenoble** for mutual cooperation between Ain Shams University and the University of Grenoble, **Jan. 17-27, 1983**, and as **External Examiner** and Reference for Doctor d'Etat Degree (**May 1983**).
8. Awarding a Summer Scholarship from the German Academic Exchange Service (**DAAD**), for one month Aug. **1983**, at the Communication Institute of the **Technical University in Braunschweig , West Germany**.

## **6. ESTABLISHMENT OF SPECIALIZED LABORATORIES, STUDIES, AND RESEARCH CONTRACTS**

1. Participating in the establishment of the Electronics & Communication Laboratories, Elect. Eng. Dept., Ain Shams University, since **1967**.
2. Participating in the establishment of the Integrated Circuit Laboratory for Post Graduate Studies, Elect. Eng. Dept. Ain Shams University, since **1971**.
3. Planning and directing a research program starting **March 1978** between Ain Shams University and the Technical University of Braunschweig (West Germany) contracting for 3 years. This contract was renewed for another period of 3 years finished on **March 1984**.
4. Planning a research program and contracting its execution starting Jan. **1981** for the benefit of the Technical University of Braunschweig (Communication Institute) at the cost of 100000 DM.
5. Planning and establishing a Training Laboratory for Radio & TV (Black and White & Colour) trouble shooting at the Center of Public Service, Ain Shams University.
6. Planning and directing a research program in the field of "**Microwave Electronic Components**" between the Electronics & Computer Eng. Dept., and the Technical University of Braunschweig (Communication Institute) for a period of two years at the cost of 50000 DM, starting **1982**.
7. Supervising and finishing more than **30 degrees of M.Sc. and Ph.D.** in the field of Electronics and Communication.
8. Attending and participating in more than **40 International Conferences**.

## **7. CONFERENCES (ATTENDANCE)**

1. Ninth Conference of Statistics & Computer Sciences, **Cairo, March 24-29, 1973**.
2. Fifth Iranian Conference on Electrical Engineering, **Shiraz, Iran, Oct. 27-30, 1973**.
3. Science and Technology Islamic Conference, **Riyadh University, Saudi Arabia, March 20-26, 1976**.
4. First Congress of International Technology, **Pittsburgh, USA, Oct. 3-8, 1976**.
5. Tenth **IEEE** International Symposium On Circuits & Systems, Phoenix, **Arizona, USA, April 25-27, 1977**.
6. Third International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo, March 27-30, 1978** (Session Chairman).

7. Eleventh **IEEE** International Symposium On Circuits & Systems, **New York, USA, May 17-19, 1978.**
8. Fifth International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, March 29 - **April 3, 1980**, (Session Chairman).
9. First **IEEE** International Conference on Circuits & Computer, **New York, USA, Oct. 1-3, 1980.**
10. Sixth International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, March 29 - **April 2, 1981**, (Session Chairman).
11. Fourteenth **IEEE** International Symposium On Circuits and Systems (ISCAS), Chicago, **Illinois, USA, April 27-19, 1981.**
12. International Second French-Egyptian Symposium on Solar Energy Applications, **Cairo**, Egypt, **Dec. 1981.**
13. Seventh International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, March 27 - **1 April, 1982**, (Session Chairman).
14. Seventh European, Microwave Conference, **Budapest, Hungary**, Sept. 6-10, **1982.**
15. Eighth International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **April 1983**, (Session Chairman).
16. Sixteenth **IEEE** International Symposium On Circuits & Systems, **California, May 2-4, 1983.**
17. International Symposium On Renewable Energy Technologies, **Los Angeles, Anaheim, California USA, Aug. 29 - 1 Sept. 1983.**
18. Tenth International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, **April 1985**, (Session Chairman).
19. Eighteenth **IEEE** International Symposium On Circuits and Systems (ISCAS'85), **Kyoto, Japan, June 5-7, 1985.**
20. Eleventh International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **April 1986.**
21. International **IEEE** Conference On Communication (ICC'86), **Toronto, Canada, June 22-25, 1986.**
22. 12th International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **March-April 1987.**
23. International **IEEE** Conference On Microwave Technology and Technique (1988 IEEE MTT-S), **New York, USA, May 23-27, 1988.**
24. 14th International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **March 25-30 1989.**

25. 15th International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **March 17-22, 1990**, (Session Chairman).
26. Eighth National Radio Science Conference, NRSC'91, Military Technical College, **Cairo**, Egypt, **Feb. 19-21, 1991**, (Session Chairman and Member of Organizing Committee).
27. 16th International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **March 2-7, 1991**, (Session Chairman).
28. 1991 International Conference On Microelectronics, ICM'91, Electronics & Computer Eng. Dept., Ain Shams University, **Cairo**, Egypt, **Dec. 21-23, 1991 (Technical Program Chairman)**.
29. Ninth National Radio Science Conference, NRSC'92, Military Technical College, **Cairo**, Egypt, **Feb. 18-20, 1992**, (Session Chairman and Member of Organizing Committee).
30. 17th International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **April 18-23, 1992**, (Session Chairman).
31. Tenth National Radio Science Conference, NRSC'93, Military Technical College, **Cairo**, Egypt, **Feb. 16-18, 1993** (Session Chairman and Member of Organizing Committee).
32. 18th International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **April 17-22, 1993**, (Session Chairman).
33. 1993 Joint Technical Conference on Circuits/Systems, Computers and Communications, **Nara, Japan, July 26-28, 1993**, (Session Chairman).
34. Eleventh National Radio Science Conference, NRSC'94, Military Technical College, **Cairo**, Egypt, **March 22-24, 1994**, (Session Chairman).
35. 19th International Congress for Statistics, Computer Science, Social and Demographic Research, **Cairo**, Egypt, **April 9-14, 1994**, (Session Chairman).
36. IGARSS'94 International Geoscience And Remote Sensing Symposium, California Institute of Technology, **Pasadena, California, USA, 8-12 August, 1994**, (Session Chairman).
37. 12th National Radio Science Conference, NRSC'95, Faculty of Engineering, Alexandria University, **Alexandria, Egypt, March 21-23, 1995** (Session Chairman and Member of Organizing Committee).
38. 13th National Radio Science Conference, NRSC'96, Military Technical College, **Cairo, Egypt, March 19-21, 1996** (Sessions Chairman and Member of Organizing Committee).

39. 14th National Radio Science Conference, NRSC'97, Faculty of Engineering, Cairo University, **Cairo, Egypt, March 23-25, 1997** (Session Chairman).
40. 1997 International Symposium on Radio Propagation (ISRP'97), China Research Institute of Radiowave Propagation (CRIRP), **Qingdao, Shandong, China 12-16 Aug., 1997** (Session Chairman).
41. 15th National Radio Science Conference, NRSC'98, Faculty of Engineering, Helwan University, **Helwan, Egypt, Feb. 24-26, 1998** (Sessions Chairman and Member of Organizing Committee).
42. 1998 Asia-Pacific Conference on Circuits and Systems (APCCS'98), **Chiangmai, Thailand 24-27 Nov., 1998**, (Sessions Chairman).
43. 16th National Radio Science Conference, NRSC'99, Ain Shams University, **Cairo, Egypt, Feb. 23-25, 1999**, (Sessions Chairman and Member of Organizing Committee).
44. 13th National Radio Science Conference, NRSC'2000, Faculty of Electronic Engineering, Minoufeya University, **Menouf, Egypt, Feb. 22-24, 2000** (Sessions Chairman and Member of Organizing Committee).

## **8. LIST OF PUBLICATIONS**

1. **M.Marzouk Ibrahim** , " Collector Depletion Layer Capacity, Base Transit Time, and Maximum Oscillating Frequenct of Drift Transistors ". Bulletin of the Faculty of Engineering, Alexandria University, Vol. X, pp. 69-93, **1972**.
2. **M.Marzouk Ibrahim** , " Spreading Base Resistance, Base Transit Time, and Figure of Merit of Drift Transistors ". Armed Forces Scientific Research Bulletin, Cairo, Vol. VIII, No.18, pp. 41-49, **1973**.
3. **M.Marzouk Ibrahim** , " Temperature Dependence of Collector Current and Proper Choice of Transistor Stability Factor ". Presented and published in the proceeding of the Ninth Conference of Statistics and Computer Science, Cairo, B7, pp. B136-B154, **1973**.
4. S.E. Yussof, **M.Marzouk Ibrahim** , and H.F. Ragaie, " A Modified Approach for the Analysis of Square Wave Tunnel Diode Oscillators ". Research Center of the College of Engineering, Riyadh University, Research Report No. CE-1/94, April **1974**. Also published in the Journal of the Asia Electronics Union (AEU), Tokyo (Japan), Vol.25, No.1, pp. 21-26, **1975**.
5. **M.Marzouk Ibrahim** , " A Modified Circuit for TV Sync Pulse Generator ", Research Center of the College of Engineering, Riyadh University, Research Report No. CE-2/94, Nov. **1974**.

6. **M.Marzouk Ibrahim** , and M.M.Mandurah, " A TV Digital Pattern Generator " , Research Center of the College of Engineering, Riyadh University, Research Report No. CE-5/95, June 1975. Also presented and published in the Proceeding of the 5-th Iranian Conference on Electrical Engineering, Shiraz, Vol.1, pp. 794-809, Oct. **1975**.
7. **M.Marzouk Ibrahim** , and A.S.Nouh, " A Colour TV Digital Pattern Generator ", Research Center of the College of Engineering, Riyadh University, Research Report No. CE-7/96, July 1976. Also presented and accepted for publication in the Proceeding of the First Congress of International Technology, Pittsburg (USA), Oct. 3-8, **1976**.
8. **M.Marzouk Ibrahim** , and A.S.Nouh, " Frequency Synthesizer Using One Single PLL". Research Center of the College of Engineering, Riyadh University, Research Report No. CE-1/97, March **1977**.
9. E.A.Talkhan, **M.Marzouk Ibrahim**, and A.S.Nouh, " An Intergrable Tunable Active BP-Filter ". Presented and published in the Proceedings of the IEEE International Symposium on Circuits and Systems (ISCAS'77) Phoenix Arizona (USA), pp. 340-343, April 25-27, **1977**.
10. **M.Marzouk Ibrahim** , " A Digital Convergence Test Pattern for Colour TV ". Research Center of the College of Engineering, Riyadh University, Research Report No. CE-3/97, May **1977**.
11. E.A.Tahkhan, **M.Marzouk Ibrahim** , and A.S.Nouh, " A Hybrid Gyrator Circuit with AM-Applications ". Journal of Engineering Sciences, College of Engineering, University of Riyadh, Vol.4, No.1, pp. 17-21, March **1978**.
12. **M.Marzouk Ibrahim** , S.M.Hussein, and H.T. El-Shaer, " Wave Digital Structure for Basic Networks ". Presented and accepted for publication in the Proceedings of the IEEE International Conference on Circuits & Computers (ICCC'80), New York (USA), Oct. 1-3 **1980**.
13. **M.Marzouk Ibrahim** , S.M.Hussein, and H.T. El-Shaer, " Bridged-T Wave Digital Structure ". Presented and published in the Proceedings of the Sixth International Congress for Statistics, Computer Science, Social and Demographic Research, Cairo, March 29 - April 2, **1981**.
14. **M.Marzouk Ibrahim** , S.M.Hussein, and H.R. El-Shaer, " About the Realization of the Two-Dimensional Wave-Digital Structures ". Presented and published in the Proceeding of the Sixth International Congress for Statistics, Computer Science, and Demographic Research, Cairo, March 29 - April 2, **1981**.

15. **M.Marzouk Ibrahim** . S.M.Hussein, and Abd-El-Aziz Sabri, " Mathematical Analysis of Wave Filters ". Presented and published in the Proceedings of the IEEE International Symposium on Circuits & Systems (ISCAS'81), Chicago, Illinois (USA), pp. 825-830, April 27-29, **1981**.
16. H.R.Ragaie and **M.Marzouk Ibrahim** , " A Tentative Experiment For Local Fabrication of Silicon Solar Cells ". Presented and published in the Proceedings of the Second French-Egyptian Symposium on Solar Energy Applications, Cairo, Egypt, pp. 167-178, Dec. **1981**.
17. **M.Marzouk Ibrahim** , " Frequency Performance of a Gyrator Circuits with BP-Applications ". Archiv for Telecommunications Techniques (ntzArchiv), VDE-Verlag GmbH, Berlin (F.R. Germany), Vol.4, No.1, pp. 21-25, **1982**.
18. **M.Marzouk Ibrahim** , and S.M.Hussein, " Applications of OPAMPs Tolerance Effects on Wave Active Filters ". Presented and published in the Proceeding of the Seventh International Congress for Statistics, Computer Science, Social and Demographic Research, Cairo, March 27 - April 1, **1982**.
19. **M.Marzouk Ibrahim** , and S.M.Hussein, " Application of Two-Dimensional Wave Digital Filter in Warning Radars ". Presented and published in the Proceedings of the Seventh International Congress for Statistics, Computer Science, Social and Demographic Research, Cairo, March 27 - April 1, **1982**.
20. **M.Marzouk Ibrahim** , S.Mahrous, and M. Abou-El-Ela, " Wide range phase-detectors with applications to phase-locked-loop ". Archiv for Telecommunications Techniques (ntzArchiv), VDE-Verlag GmbH, Berlin (F.R. Germany), Vol.4, No.9, pp. 257-265, **1982**.
21. A. Rendel, S. Mahrous, **M.Marzouk Ibrahim**, A.S.Omar, and K.Schueneman, " Stable Oscillators Using Microstrip Technique ". Presented and published in the Proceeding of the Seventh European Microwave Conference, Budapest, Sept. 6-10, **1982**.
22. **M.Marzouk Ibrahim** , S.Mahrous, and M. Abou-El-Ela, " A Modified first-order discrete phase-locked-loop ". Archiv for Telecommunications Techniques (ntzArchiv), VDE-Verlag GmbH, Berlin (F.R.Germany), Vol.4, No.11, pp. 341-346, **1982**.
23. **M.Marzouk Ibrahim** , S.Mahrous, A.S.Omar, K.Schuenemann, and A.Rendel, " Microstrip in below-cutoff waveguides ". Research Report submitted to the German Research Association (DFG & FTZ), Bonn (F.R.Germany), pp. 1-31, Dec. **1982**.

24. **M.Marzouk Ibrhaim** , and M. Abou-El-Ela, " Frequency Synthesizers with 0.1 Hz Resolution ". Archiv for Telecommunications Techniques (ntzArchiv), VDE-Verlag GmbH, Berlin (F.R.Germany), Vol.5, No.4, pp.113-118, **1983**.
25. **M.Marzouk Ibrahim** , " A Modified colour TV channel with 2.5 MHz bandwidth" Archiv for Telecommunications Techniques (ntzArchiv), VDE-Verlag GmbH, Berlin (F.R.Germany), Vol.7, No.7, pp. 167-170, July **1985**.
26. S.M.Mahmoud, **M.Marzouk Ibrahim** , and B.S.Haroun, " Blind restoration of images using reconstruction of the degrading point spread function ". Archiv for Telecommunications Techniques (ntzArchiv), VDE-Verlag GmbH, Berlin (F.R.Germany), Vol.7, No.12, pp. 311-319, Dec. **1985**.
27. **M.Marzouk Ibrahim** , & S.A.Mostafa, " Analysis and Computer Simulation of Random Pulse Radars ". Presented and published in the Proc. of the IEEE International Conference on Communications'86 (ICC'86), Toronto, Canada, June 22-25, 1986, Vol.1, pp. 235-239, June **1986**.
28. A.H. El-Sawy & **M.Marzouk Ibrahim** , " Robust Detection of Signals with Unknown Frequency and Phase ". Presented and published in the Proc. of the IEEE International Conference on Communications'86 (ICC'86), Toronto, Canada, June 22-25, 1986, Vol.1, pp. 681-685, June **1986**.
29. **M.Marzouk Ibrahim** , S.Mahrous Mahmoud and A.S.Omar. " Microwave oscillator design using Waveguide below-cutoff techniques ". Archiv for Telecommunications Techniques (ntzArchiv), DVE-Verlag GmbH, Berlin (F.R.Germany), Vol.8, No.8, pp. 207-210, Aug. **1986**.
30. **M.Marzouk Ibrahim** & F.A.S. Soliman, " Computer Analysis of Radiation Effects on Silicon Cells ". Presented and published in the Proc. of the 12th International Congress for Statistics, Computer Science, Social and Demographic Research, Cairo, Egypt, March 28 - April 2, 1987, Scientific Computing Center, Ain Shams University, pp. 153-180, April **1987**.
31. **M.Marzouk Ibrahim** & F.A.S. Soliman, " Radiation Effects on Optoelectronic Devices". Presented and published in the Proc. of the 12th International Congress for Statistics, Computer Science, Social and Demographic Research, Cairo, Egypt, March 28 - April 2, 1987, Scientific Computing Center, Ain-Shams University, pp. 181-200, April, **1987**.

32. **M.Marzouk Ibrahim** , H.Fikri Ragaie, and H.S.Haddara, " Development of Local MOS Technology ". Presented and published in the Proc. of the 12th International Congress for Statistics, Computer Science, Social and Demographic Research, Cairo, Egypt, March 28 - April, 1987, Scientific Computing Center, Ain-Shams University, pp. 201-218, April **1987**.
33. S.M.Mahmoud, **M.Marzouk Ibrahim** & A.S.Omar, " Application of the theory of linear operators to the waveguide discontinuity problems ". **1988** IEEE Microwave Technology and Technique (MTT)-S Digest, New York, USA, pp. 367-370, **1988**.
34. Saud J. Yaghmour & **M.Marzouk Ibrahim** , " Analysis and performance of single-element frequency control RC-oscillators using Opamps ". Technical Review for Information Technology (ntzArchiv), VDE-Verlag, GmbH, Berlin (F.R.Germany), Vol.11, No.4, pp. 197-200, April **1989**.
35. F.M. Al-Ghamdi & **M.Marzouk Ibrahim** , " Novel RC-Oscillators using single Operational Amplifier ", Proc. of the IEEE International Symposium on Circuits & Systems, (ISCAS'91), pp. 2585-2588, **1991**.
36. S. Bassiouni, H. Haddara, H. F. Ragaie, and **M. Marzouk Ibrahim** " Modeling of VLSI MOSFET's using Spice ", Proc. of the International Conference On Microelectronics, (ICM'91), Cairo, Egypt, pp. 190- 193, Dec. 21- 23, **1991**.
37. H. Elgitani, E. El- Sayed, A. Zekry, and **M. Marzouk Ibrahim** , " Effect of resistivity of contact materials in GTO thyristors ", Proc. of the International Conference on Microelectronics, (ICM'91), Cairo, Egypt, Dec. 21- 23, **1991**, pp. 414- 418.
38. Esam Abdel- Reheem, **M. Marzouk Ibrahim** , " Applications of efficient scene matching algorithms for Satellite image : a comparison ", Proc. of Canadian Conference on Electrical and Computer Engineering, Toronto, Ontario, 13- 16 Sept. **1992**, pp. MM3.4.1 - MM3.4.4 .
39. **M. Marzouk Ibrahim** , " Inductance simulation with applications in active circuits", Invited Paper, Proc. of the 11th National Radio Science Conference, Military Technical College, Cairo, Egypt, March 22- 24, pp. INV/ 1 - INV/ 20 , **1994**.
40. **M. Marzouk Ibrahim** , E. A. F. Abdallah, H. M. El- Henawy, A. A. N.Ahmed, and A. S. Hohra, " Microstrip Six- Port reflectometer ", Proc.of Progress in Electromagnetics Research Symposium "PIERS", The University of Washington, Seattle, Washington, USA, 24- 28 July, **1995**, pp. 739.

41. **M. Marzouk Ibrahim** , S. Ali Mostafa, and S. El- Ramly, " A Novel Transmisson- Reception technique for Optimum Pulse Radar ", presented and published in the Proc. of 1997 International Symposium on Radio Propagation (ISRP'97), China Research Institute of Radiowave Propagation (CRIRP), Qingdao, China 12-16 Aug., **1997**, pp. 399- 405.
42. M. A. Sheirah & **M. Marzouk Ibrahim** , " Engineering Education and Requirements for Faculties of Engineering in Egypt ", Proc. Of the 30<sup>th</sup> International Symposium " Engineering Education 2001", Klagenfurt, Austria, 17- 20 September, 2001, pp. 217- 220.
43. A. Abou-Elnour, E. Yosry Hassan, and **M. Marzouk Ibrahim**, " Frequency Performance of MOS Magnetic Field Detector Using an Efficient Two-Dimensional Physical Simulator ", accepted for presentation and publication in the Proc. of the 2001 International Symposium on Signal, Systems and Electronics (ISSS'01), 2001.
44. A. Abou-Elnour, **M. Marzouk Ibrahim**, Esam Y. Mohamed, " Simulation and performance of a Microwave Magnetic Sensor " , Proc. Of the 19th National Radio Science Conference (NRSC 2002, Alexandria Uni., 19-21 March 2002, Egypt, pp.509-518.
45. A.A.Moniem, K.Sharaf, H.F. Ragaie, **M.M. Ibrahim**, " Design of a 960 MHz CMOS integrated image reject front-end receiver", Proc. Of the 5th International Workshop IEEE Design and Diagnostics of Electronic Circuits and Systems (DDECS) 2002, Brno, Czech Republic, April 17-19, 2002, pp. 236-243.
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