

## **PUBLICATIONS:**

### **A. Papers presented and published in International Refereed Conferences or published in Refereed International Journals:**

- 1- M. K. Samarkandy, "**Usable Orbital Arcs of the World Countries**", J. Eng'g. Science, King Saud University. Vo1.9, No. 1, 1983, pp3-6.
- 2- M. K. Samarkandy, B. B. Lusignan, "**Orbit Spectrum Utilization for Geostationary Satellite System**", presented at the 33<sup>rd</sup> Congress of the International Astronomical Federation, Sept.1982, Paris, France, p.37.
- 3- M. K. Samarkandy and C. C. Han, "**Efficient Utilization of Geostationary Satellite Orbit**," Proceedings of the IEEE International Symposium on Electromagnetic Compatibility, Boulder, Colorado, Aug. 1981.
- 4- M. K. Samarkandy and C. C. Han, "**Technical Basis for Efficient Management of Geostationary Satellite Orbit**", Proceedings of the international Telecommunication and Computer Exposition, Los Angeles, California, USA, Nov. 1980,pp. 48-54.
- 5- M. K. Samarkandy, S. Bakry, S. A. l-Wakeel and M. Afifi, "**Concepts of Available and Required Isolations to protect a Regional Satellite System against Inhomogeneous Interference**", Proceedings of ARABSAT Symposium, 29th September - 1st October, 1987, Riyadh, Kingdom of Saudi Arabia,pp.101-132
- 6- B. Lusignan, M. Mousa' and M. K. Samarkandy, "**The role of Satellite Systems in Developing Countries**", "Arab Development Journal for Science & Technology", Vol.2, No.3, Sept. 1979, pp.5-24.
- 7- M. M. Mousa, B. B. Lusignan, C. Chan, M. K. Samarkandy, "**The Impact of Satellite Technology on Rural Telephone System Planning**", Proceedings of AJAA 8th Communication Satellite Systems Conference, April 20-24, 1980, Orlando, Florida.
- 8- M. K Samarkandy, "Look Angle Contours of Satellite **Earth Stations for Arab Countries**", Space Communication and Broadcasting, Vo1. 5, No.6, 1987, pp. 441-452, Holland.

- 9- S. H. Bakry, M. K. Samarkandy and S. Al-Wakeel, "**A Methodology for the Investigation of Telephone Demands in Saudi Arabia**", published in three languages; **English, French and Spanish**. ITV- Telecommunication Journal, Vo1.54, No.1, January 1987, pp.38-45.
- 10- A. A. Ali, I. A. Al-Kadi and M. K. Samarkandy, "**Global Hop Length Analysis for Millimeter Wave Radio Links**", International Journal of Infrared and Millimeter Waves, Vo1.8, No.9, September 1987,pp. 10971113, New York & London.;
- 11- M. K Samarkandy, "**Telecommunication Planning in the Arab State Countries**", 4<sup>th</sup> World Telecommunication Forum, ITV, Geneva, Switzerland, Oct/Nov. 1983, pp.3.11.9.1-3.11.9.5.
- 12- M. K. Samarkandy, "**Communication Satellite System for the Arab Countries- ARABSA T**", Proceedings of the IEEE International Symposium on Electromagnetic Compactability, Aug.1985, Wakefield, Massachusetts, U. S. A
- 13- S. H. Bakry, M.K. Samarkandy and S. Al-Wakeel, "**Analysis of Factors Required for the investigation of Telephone Demands in Saudi Arabia**", Proceedings of the IEEE, Conference on Antenna and Communications, Montreal, Quebec, Canada, Sept-Oct 1986, pp. 138-141.
- 14- S.H. Bakry, M. K. Samarkandy, and N. Ali, "**Investigation of Channel Assignment Schemes for Cellular Mobile Radio Telephone Systems Using Digital Computer Simulation**", Proceeding of the IEEE, Conference on Antenna and Communications, Montreal, Quebec, Canada, Sept, Oct. 1986 pp, 116-119.
- 15- S.H. Bakry, M. K. Samarkandy, S. Al-Wakeel and A. Al-Sehry, "**A Computer-based Methodology for the Investigation of Traffic Placed on ARABSAT Telephone Network**", Proceedings of ARABSAT Symposium, 29th September-1<sup>st</sup> , October 19, 1987, Riyadh, Kingdom of Saudi Arabia, pp.313-326
- 16- M. Nagi, M. Afifi and M. K. Samarkandy, "**Feed- Design and Performance of an Offset Reflector of a small Earth Station**", Proceedings of ARABSAT Symposium, 29<sup>th</sup> September -1<sup>st</sup> October, 1987, Riyadh, Kingdom of Saudi Arabia, pp. 101-132

- 17- M. S. Afifi and M. K. Samarkandy, "**The Limitations and the Future of Small Earth Stations**", 5<sup>th</sup> World Telecommunication Forum, ITU Technical Symposium, Part 2, Geneva, Switzerland, 22-27 October 1987, pp. 203-207.
- 18- S.A1wakeel, S. Bakry and M. K. Samarkandy, "**Recent Technology Trends in the Design and Architecture of SPC Switching Systems**". Proceedings of the 9th National Computer Conference and Exhibition, Riyadh, Saudi Arabia, Vol. 2, Oct. 1986, pp. 8.2.1-8.2.14
- 19- S. H. Bakry, M. K. Samarkandy, and S.A1wakeel, "**A Computer Spread Sheet Representation of Telecommunication Demand Models for Saudi Arabia**", presented and published in the proceedings of the 10th National Computer Conference and Exhibition, 28th February-3'd March 1988, pp. 147-163, Jeddah, Saudi Arabia.
- 20- S. H. Bakry and M. K.Samarkandy "**Evaluating the Saudi Telephone Network**", Middle East Communications (ICOM Publications, England), October 1988, pp.14-19.
- 21- M. Bawazeer, S. H. Bakry and M. K. Samarkandy, "**Anatomy of a Telephone Network**", Middle East Communications (ICOM Publications, England), January 1989, pp. 52-53.
- 22- S. H. Bakry, A. Nouh and M. K. Samarkandy, "**Recent experience in the development of a standard Arabic information processing glossary**" 11<sup>th</sup> Saudi National Computer Conference and Exhibition (King Fahd University of Petroleum and Minerals), Dhahran, Saudi Arabia, March 4-7, 1989, pp. 373-381.
- 23- S. H. Bakry and M. K. Samarkandy, "**Computer investigation of Telephone Traffic capacity for Cellular Mobile Radio Systems**", 39<sup>th</sup> IEEE Vehicular Technology Conference, San Francisco, California, USA, ApriI29-May3, 1989.
- 24- S. H. Bakry and M. K. Samarkandy, "**Investigation of the Overall use of the International Telephone Links in Saudi Arabia**", International Journal on Policy and Information, (Joint Publication: Tamkang University, Taiwan and Knowledge System Institute, Illinois, USA), Vol. 13, No.1, June 1989, pp A9-67.

- 25- S. H. Bakry, M. K. Samarkandy and A. Al-Shehry, "**Investigation of the busy hour Telephone Traffic placed on ARABSAT**", Space Communication and Broadcasting, (North Holland), Vol. 6, 1989, pp.291--299.
- 26- S. H. Bakry, A. Nouh and M. K. Samarkandy, "**A Unified Standard Arabic Lexical Database for Computer Terminology**", Second Conference of Arabic Computational Linguistics, Kuwait, Nov. 26-29, 1989 (in Arabic).
- 27- S. H. Bakry, M. K. Samarkandy, S. Al-Wakeel and N. Zawawi, "**Evaluation of Telephone Access Service Contrasts in Saudi Arabia**", Riyadh region versus Southern region", Journal of King Saud University (Engineering Sciences), Vol. 2, No.1,1990, pp.53-72.
- 28- S. H. Bakry and M. K. Samarkandy, S. Al-Wakeel and N. Zawawi, "**Investigation of Telephone access demands in Saudi Arabia**", International Journal of Information and Management Sciences (Tamkang University, Taiwan), Vol. 1, No.2, Nov, 1990, pp.35-53.
- 29- S. H. Bakry and M. K. Samarkandy, "**New Methods in the Computer Evaluation of the Performance of Telephone Networks**", the 3<sup>rd</sup> Saudi Engineering Conference (King Saud University), Riyadh, Saudi Arabia, Oct.1991.
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- 32- S. H. Bakry and M. K. Samarkandy, "**A Simplified Approach for the Investigation of the Traffic Capacity of Cellular Mobile Radio Telephone Systems**", Computer and Electrical Engineering - An International Journal (Pergamon Press) Vol. 18, No.2, 1992, pp.153-158.
- 33- S. H. Bakry and M. K. Samarkandy, "**Views on Planning Information Networks**", Network Management - An international Journal (Wiley), Vol. 2, No.1, March 1992, pp. 41-54

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- 35- S. H. Bakry, I. Al-Abbas and M. K. Samarkandy, "**Analysis of the Economic Life and the Replacement Time of Telecommunications Equipment**", Network Management – An International Journal (Wiley), Vol.3, No.2, June 1993, pp.78-90.
- 36- Mostafa S. Afifi and Mohammad K. Samarkandy, "**Interference Limitations and Future Small Earth Stations**", Journal of King Saud University, Vol. 2, Eng'g. Science (2), pp. 259-274 (1990).
- 37- Mohammad K. Samarkandy, "**Elevation and Azimuth Distribution of Small Satellite Earth Stations for Saudi Arabia**", The Arabian Journal for Science and Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Vo1.14, No. 4, pp.611-616, October 1989.
- 38- M. K. Samarkandy, A. Al-Ruwais, "**Direct Broadcast Satellite in the GCC Countries**", Technical Report, Prepared under contract for general directorate of GCC- Gulf Countries, Riyadh, 1991.