

## السيرة الذاتية

الإسم : سعد بن مبارك بن محمد الغوينم

تاريخ الميلاد : 1370 هـ

تلفون العمل : 467-6739

تلفون المنزل : 468-3447

فاكس العمل : 467-6757

بريد الكتروني: s.alghuwainem@ieee.org

## المؤهلات العلمية :

- 1- بكالوريوس هندسة كهربائية -جامعة الملك سعود 1394 هـ
- 2- ماجستير هندسة كهربائية - جامعة كلورادو -بولدر- أمريكا 1397 هـ
- 3- دكتوراه هندسة كهربائية - جامعة متشجن - آن آربر - أمريكا 1406 هـ

## التاريخ الوظيفي :

- 1- معيد بقسم الهندسة الكهربائية - جامعة الملك سعود 1394 هـ
- 2- أستاذ مساعد بقسم الهندسة الكهربائية - جامعة الملك سعود 1406 هـ
- 3- أستاذ مشارك بقسم الهندسة الكهربائية - جامعة الملك سعود 1413 هـ
- 4- أستاذ بقسم الهندسة الكهربائية - جامعة الملك سعود 1418 هـ

التخصص العام : هندسة كهربائية

التخصص الدقيق : هندسة القوى الكهربائية

## الإهتمامات العلمية :

- 1- حماية أنظمة القوى الكهربائية
- 2- تحليل الموجات العابرة على شبكات القوى الكهربائية
- 4-أساليب ترشيد إستهلاك الطاقة الكهربائية

## الأبحاث العلمية :

- [1] S. M. Alghuwainem and P. J. McCleer, "Simulation of the Ground Mode Skin-Effect for Time Domain Transient Analysis", Proceedings of the Sixteenth **IEEE** Midwest Power Symposium, Drexel University, Philadelphia PA, USA, October 25-26 1984.
- [2] S. M. Alghuwainem and P. J. McCleer, "Limitations on Use of Standatd CCVT's in Traveling Wave Relaying", Proceedings of the Seventeenth **IEEE** Midwest Power Symposium, Michigan Technological University, Houghton, MI, USA, October 3-5 1985.

- [3] S. M. Alghuwainem, "Fault Induced Transients on Power Systems From Modal Networks", Proceedings of the Middle East Power Conference ( MEPCON 89 ), Cairo, Egypt, January 9-13 1989.
- [4] S. M. Alghuwainem, "Time Domain Modeling of Frequency Dependent Three Phase Transmission Line Resistance", *Electric Machines and Power Systems*, Volume 19, Number 6, 1991.
- [5] S. M. Alghuwainem, "Application of a DC Chopper to Maximize Utilization of Solar-Cell Generators", *IEEE/PES Power Engineering Society 1991 Winter Meeting*, February 3-7 1991, New York, NY, USA.
- [6] S. M. Alghuwainem, "Steady State Performance of DC Motors Supplied From Photovoltaic Generators With Step-Up Converter", *IEEE Transaction on Energy Conversion*, Volume 4, June 1993.
- [7] S. M. Alghuwainem, "Matching of a DC Motors to a Photovoltaic Generator Using a Step-Up Converter With a Current Locked Loop", *IEEE Transaction on Energy Conversion*, Volume 3, March 1994.
- [8] S. M. Alghuwainem, "Performance Optimization Of Photovoltaic Generators", Proceedings of the First Maghribian Electrical Engineering Conference, Tunisia, May 28-31, 1994.
- [9] S. M. Alghuwainem, "Photovoltaic Generator Current Control for Maximum Utilization", The First International Conference on Electronics, Circuits, and Systems ( ICECS'94 ) December 19-22, 1994, Cairo, Egypt.
- [10] S. M. Alghuwainem, "Maximizing Utilization of Photovoltaic Generators for DC Motor Drives", The Second Saudi Symposium on Energy Utilization and Conversion. King Fahd University of Petroleum and Minerals, Dahrn, Nov. 27-30, 1994.
- [11] S. M. Alghuwainem and A. M. Al-Fayez, "Directional Comparison Protection for E.H.V Transmission Lines Based on Fault Induced Transients", The Second Saudi Symposium on Energy Utilization and Conversion. King Fahd University of Petroleum and Minerals, Dahrn, Nov. 27-30, 1994.
- [12] S. M. Alghuwainem, "Simulation of Power Systems Fault-Induced Electromagnetic Transients Using Pspice" Middle East Power Conference ( MEPCON ) 3-5 January 1996. Cairo, Egypt.
- [13] S. M. Alghuwainem, "Performance Analysis of a PV Powered DC Motor Driving a Three-Phase Self-Excited Induction Generator", *IEEE Transaction on Energy Conversion*, Volume 11, March 1996.
- [14] S. M. Alghuwainem, "Speed Control of a PV Powered DC Motor Driving A Three-Phase Self-Excited Induction Generator for Maximum Utilization Efficiency", *IEEE Transaction on Energy Conversion*, Volume 11, December 1996.
- [15] S. M. Alghuwainem, "A Close-Form Solution for the Maximum Power Operating Point of a Solar Cell Array", *Solar Energy Materials and Solar Cells*, 46 (1997) 249-257.
- [16] S. M. Alghuwainem, "Steady-State Analysis of an Induction Generator Self-Excited by a Capacitor in Parallel with a Saturable Reactor", *Electric Machines and Power Systems*, Volume 26, Number 6, January 1998.

- [17] S. M. Alghuwainem, "Steady-State Analysis of a Self-Excited Induction Generator Self-Regulated by a Saturable Reactor", *International Electric Machines and Drives Conference IEMDC97* Milwaukee, Wisconsin May 18-21 1997.
- [18] S. M. Alghuwainem, "Steady-State Analysis of a Self-Excited Induction Generator Driven by Regulated and Unregulated Turbine", *IEEE-PES Winter Meeting* 1997, Tampa, Florida, Feb 2 –6 1997.
- [19] S. M. Alghuwainem, "Control of A Wind-Driven Self-Excited Induction Generator Water-Pumping System for Maximum Utilization Efficiency" 33<sup>rd</sup> Intersociety Energy Conversion Engineering Conference, Colorado Springs, Colorado, August 2-6 1998.