



**AMIRKABIR UNIVERSITY OF TECHNOLOGY**  
**(TEHRAN POLYTECHNIC)**  
**DEPARTMENT OF ELECTRICAL ENGINEERING**

Hafez Ave, NO. 424  
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# **RESUME**

## **Personal Identity**

Name: Behrooz  
Surname: Vahidi  
Date of birth 1953  
Place of birth: Abadan  
Nationality: Iranian  
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Main interests: High Voltage Engineering,  
Electrical Insulation, Lightning Protection,  
Transient in Power system, Pulsed Power  
Technology

## **Education**

1-B.Sc., Electrical Eng. Dept. , Sharif  
University of Tech., Tehran-Iran, 1980

2-M.Sc. Electrical Eng. Dept. (Power  
System Group) , Amirkabir University of  
Tech., Tehran-Iran, 1989

3-Ph.D. Electrical Eng. Dept. (High Voltage  
and Power System Group), UMIST, UK,  
1997

## **Thesis**

1-Transient overvoltage on 230 kv and  
400kv transmission lines and substations of  
Iran, M.Sc. thesis , Amirkabir University of  
Tech., Tehran-Iran , 1989

2-Non-standard lightning overvoltages on  
power systems ,Ph.D., thesis, UMIST, UK,  
1997

## **Academic Positions**

1-Lecturer ,Dept. of E.E (Power system  
group), Amirkabir University of Tech. ,  
Tehran-Iran, 1989-1994

2-Assistant Professor, Dept. of E.E (Power system group), Amirkabir University of Tech. , Tehran-Iran, 1997-2004

3- Associate Professor, Dept. of E.E (Power system group), Amirkabir University of Tech. , Tehran-Iran, 2004-2008

4- Professor, Dept. of E.E (Power system group), Amirkabir University of Tech. , Tehran-Iran, 2008

## **Executive Positions**

1-Head of High Voltage Lab. Dept. of E.E., Amirkabir University of Tech. , Tehran-Iran, 1989-1994

2-Head of power system group, Dept. of E.E., Amirkabir University of Tech. , Tehran-Iran, Oct.1999-Oct.2001

## **Visiting Professorship in Iranian Universities**

1-Naval Architecture Dept., Amirkabir University, Bandar Abas Campus, Iran 1990

2-Elect. Eng. Dept., Power & Water Institute of Technology Tehran - Iran 1997

3-Elect. Eng. Dept. , Azad University Tehran - Iran, 1997-now

4-Elect. Eng Dept., K.N.Toosi University of Tech., Tehran-Iran., 1997-2001

## **Industrial Experience**

1-Consultant , Sholeh Afshan Company, Tehran - Iran , 1980-1983

2-Chief of High Voltage Lab., Iran-transfo Company (Power Transformer Company) , Zandjan - Iran , 1983-1986

## **Professional Affiliation**

1-Member of IEEE, 2000

2-Senior Member of IEEE, 2004

## **Courses Taught**

1-Basic of Electrical Engineering

2-Application of Electrical and Electronics

3-Power System Analysis I

4-Electrical Installation

5-High Voltage Engineering and Electrical Insulation

6-High Voltage Technology

7-Overhead Transmission Line Design

## **Graduate Students Supervised or Under Supervision**

1-M.Sc. Students= 30

2-Ph.D. Student = 3

## **Books**

1-Power system analysis I (2005)

2-Power System Analysis II Vol. 1 (2006)

3-Power System Analysis II Vol. 2 (2006)

4- Power Transformers Testing (2008)

5- Power System Component Modeling (2008)

## **Refereed Papers**

### **1- Journal Papers**

- B. Vahidi, M. R. Bank Tavakoli and W. Gawlik, " An Educational Guide to Extract the Parameters of Heavy Duty Gas Turbines Model in Dynamic Studies Based on Operational Data", accepted by Transactions on Power Systems.
- R. Shariatinasab, B. Vahidi, S.H. Hosseinian, A. Ametani, "Optimization of surge arrester's location on EHV and UHV power networkes using simulation optimization method", IEEEJ Trans. PE, Vol. 128, No. 12, 2008.
- R. Shariatinasab, B. Vahidi, S.H. Hosseinian, "Statistical Evaluation of Lightning Related Failures for the

- Optimal Location of Surge Arresters on the Power Networ” Accepted for publication in Proc. Of Gen. Trans. And Distr., IET, Uk
- D. Fallahi, M. Rafizadeh, N. Mohammadi, B. Vahidi, “The Effect of Applied Voltage on Jet Electric Current and Flow Rate in Electrospinning of Polyacrylonitrile Solutions”, Accepted for publication in Polymer international, John Wiley & Sons Ltd.
  - B. Vahidi, M. Jannati, S. H. Hosseinia, “A Novel Approach to Adaptive Single Phase Auto-Reclosure Scheme for EHV Power Transmission Lines Based on Learning Error Function of ADALINE”, Accepted for publication in Simulation.
  - B. Vahidi, M. R. Banktavakoli, “Simulation of Ward Leonard Test Set and Induction Motor on MATLAB for Teaching Performance Characteristics of Induction Motor to Undergraduate Students”, ACCEpted for publication in CAE.
  - B. Vahidi, M. Yahyaabadi, M. R. Banktavakoli, S. M. Ahadi”, Leader Progression Analysis Model for Shielding Failure Computation by Using Charge Simulation Method” IEEE Trans. on Power Delivery, Vol. 23, No. 4, Oct 2008.
  - D. Fallahi, M. Rafizadeh, N. Mohammadi, B. Vahidi, “Effect of LiCl and non –ionic surfactant on morphology of polystyrene electrospun nanofibers”, e-Poly mers, no. 056, 2008.
  - B. Vahidi, H. Tayebifar and M. J. Alborzi, " Application of Charge Simulation Method for Investigation of Effects of the Trees on Lightning Protection of Structures", Journal of Electrostatics, Elsevier, 66, 2008.
  - B. Vahidi, "Influence of measuring systems on fast transient modeling of Zno surge arresters", Accepted for publishing in Amirkabir Journal of Science & Technology, Tehran, Iran, summer 2008.
  - B. Vahidi, M. R. Bank Tavakoli and S. H. Hosseinian, " Evaluating Optimum Arrester's Locations in HV and EHV Networks Using Simulation Optimization to Suppress Switching Surge Overvoltages", Accepted for publishing in Amirkabir Journal of Science & Technology, Tehran, Iran, winter 2008.
  - B. Vahidi and Gh. Rasuli Hashemabad, " Transformers Oil Static Electrification Analysis by Using Open Cycle System", Accepted for publishing in Iranian Journal of Electrical and Computer Engineering (IJECE), Tehran – Iran
  - B. Vahidi, M. R. Bank Tavakoli and W. Gawlik, " Determining Parameters of Turbine's Model Using Heat Blance Data of Steam Power Unit for Educational Purposes", Transactions on Power Systems, Vol. 22, Nov. 2007
  - B.Vahidi, A.M.Jafari, “Modelling the effects of trace and parameters of transmission lines on the lightning stroke” , Iranian Journal of Electrical and Computer Engineering (IJECE), Tehran – Iran, Vol. 5, Summer 2006
  - B. Vahidi and A. Mohammadzadeh F. D., “Application of Charge Simulation Method to Electric Field Calculation in the Power Cables”, Iranian Journal Of Science & Technology, Iran, Vol. 30, Dec. 2006
  - B. Vahidi, R. E. Bivarzan, M. Mehranian, F. Vahabzadeh and E. Jamshidi, “40 kV Impulse System for Decontamination of Liquid Food”, Journal of Iranian Association of Electrical and Electronics Engineers, Vol. 2, No. 2, Fall/Winter 2006

- B. Vahidi, A.R.Shaddel, "A New Approach To Lightning Protection Of Wind Turbine", Journal of IAEEE, Vol. 2, No. 1, Spring 2005, IRAN
  - B.Vahidi, M.J.Alborzi, H.Aghaeinia and M.Abedi, "Corona Detection on Surfaces of Insulators Using Ultrasound Sensors and Fiber-Optics Transmission Systems", European Transactions on Electrical Power, John Wiley, Vol. 15, 2005.
  - Vahidi, J. Beiza, A Pspice Model in Impulse Testing of Power Transformers, IEEE Transactions on Education, Vol. 48, May 2005
  - B. Porkar, S. Porkar, B. Vahidi, "Methods of Magnetic Field Reduction Around Transmission Lines", Amirkabir Journal of Science & Technology , Vol. 14, No. 55-1, Summer 2003, Amirkabir University of Technology , Tehran – Iran
  - B.Vahidi, A.Mohamadzadeh F., "A new method for analyzing and design of guard electrodes of high voltage insulators chain", Amirkabir Journal of Science & Technology, Vol. 13, No. 51, Summer 2002, Amirkabir University of Technology , Tehran - Iran
  - M.Abedi, B.Vahidi, F.Rahbar, "Application of Poisson distribution to determine isokeraunic map of Iran", Amirkabir Journal of Science & Technology, NO. 14 , Amirkabir University of Technology , Tehran - Iran , Spring 1990
  - M. Abedi, B.Vahidi, "Lightning protection of EHV substations in Iran", Journal of Engineering ,Islamic Republic of Iran , Vol. 2, NO. 3&4 , 1989
  - M.Abedi, B.Vahidi, "Protection of building against lightning in Iran" , Amirkabir Journal of Science & Technology, NO. 1 , Amirkabir University of Technology , Tehran - Iran , Winter 1989,
- ## 2- Conference Papers
- B. Vahidi, M. Shafiee, and M. Mahmoodan, " Differential Evolution Algorithm Approach to Design of an Optimal Active Power Controller for AC-DC Transmission Systems ", DRPT 2008, Nanjing, China, 6-8 April, 2008
  - B. Vahidi, N. Ghaffarzadeh and S. H. Hosseini, " Evaluation of a New Algorithm for High Impedance Fault Identification Based on Discrete Wavelet Transform and Artificial Neural Network", DRPT 2008, Nanjing, China, 6-8 April, 2008
  - P. Hasanpor Divshali, B. Moradzadeh, S. H. Hosseini and B. Vahidi, "Modified Indices for Accurate Prediction of HOPF Bifurcation in Power Systems", DRPT 2008, Nanjing, China, 6-8 April, 2008
  - P. Hasanpor Divshali, S. H. Hosseini, E. Nasr Azadani and B. Vahidi, "Modified Fast Indices for Prediction of HOPF Bifurcation by Matrix Reciprocal Condition Number", DRPT 2008, Nanjing, China, 6-8 April, 2008
  - M. Jannati, B. Vahidi, S. H. Hosseini and H. R. Baghaee, " A New adaptive Single Phase Auto-Reclosure Scheme for EHV Transmission Lines", MEPCON 2008, Aswan Egypt, 12-15 March, 2008

- A. H. Ranjbar, B. Abdi, G. Gharepetian and B. Vahidi, "Effect of Paralleling Switches on Reduction of Reliability of Fuel Cell DC-Dc Converters", APEC 2008, Austin, Texas, USA, 24-28 Feb., 2008
- M. Jannati, B. Vahidi, S. H. Hosseini and H. R. Baghaee, "A New adaptive Single Phase Auto-Reclosure Scheme for EHV Transmission Lines", MEPCON 2008, Aswan Egypt, 12-15 March, 2008
- M. Jannati, B. Vahidi, S. H. Hosseini and H. R. Baghaee, "A new Adaptive Single Phase Autoreclosure Scheme for HV Transmission Lines", Power Systems Protection & Control Conference, Tehran, Iran, 7-9 Jan, 2008
- N. Ghaffarzadeh, B. Vahidi and S. H. Hosseini, "A new Method to High Impedance Fault Detection Using Wavelet Transform and Artificial Neural Network", 22<sup>nd</sup> International Power System Conference (PSC 2007), Tehran, Iran, 19-21<sup>st</sup> Nov., 2007
- M. R. Bank Tavakoli, H. Eisazadeh, G. R. Riahi and B. Vahidi, "The Effect of Wind Farm Connection in Vicinity of Steam Power Plants on Turbine-Generator Torsional Model Oscillations", 22<sup>nd</sup> International Power System Conference (PSC 2007), Tehran, Iran, 19-21<sup>st</sup> Nov., 2007
- R. Shariatinasab, B. Vahidi, S. H. Hosseini, M. Sedighzadeh "Selection of Station Surge Arresters Based on the Evaluation of Failure Probability Using Artificial Neural Networks", 42<sup>nd</sup> UPEC, Brighton, UK, 4-6 Sept. 2007
- S. H. Hosseini, E. Nasr Azadani, B. Vahidi, "Simulation of nonlinear elements within the framework of time domain", IEEE PES PowerAfrica 2007, Johannesburg, South Africa, 16-20 July 2007
- S. H. Hosseini, B. Vahidi, "Transformer no-load current wave shape considering core loss", TENCON 2007, Taipei, Taiwan, 30 Oct-2 Dec. 2007
- B. Vahidi, Senior member, IEEE, M. Janati, S. H. Hosseini, "Comparison Between Different Models During Short Circuit Interruption Test of Circuit Breaker", TENCON 2007, Taipei, Taiwan, 30 Oct-2 Dec. 2007
- B. Vahidi, Alizadeh Mousavi, S. H. Hosseini, "Lightning Overvoltage Analysis in Wind Farm", TENCON 2007, Taipei, Taiwan, 30 Oct-2 Dec. 2007
- B. Vahidi, E. Goodarzi, S. H. Hosseini, M. R. Bank Tavakoli, "Effect of Transient Model of Arrester on Transient Recovery Voltage", TENCON 2007, Taipei, Taiwan, 30 Oct-2 Dec. 2007
- M. R. Bank Tavakoli, B. Vahidi, and S. H. Hosseini, "A Discrete-Event Simulation to Evaluate Shielding Failure Risk of Flashover of an Arrester Protected Overhead Line", ISH 2007, Ljubljana, Slovenia, 27-31 Aug. 2007
- B. Vahidi, M. Ghorat and E. Goudarzi, "Overvoltage Calculation on Bam Substation by Monte Carlo Method with Accurate Substation Components Modeling", Power Tech 2007, Lausanne, Switzerland, 1-5 July, 2007
- M. Ghorat, B. Vahidi, E. Goodarzi, "Statistical analysis of overvoltage on high voltage substations due to lightning by Monte Carlo method", ICEE 2007, Tehran, Iran, May 2007

- J. Beiza, S. H. Hosseiniian, B. Vahidi, " Design of digital flicker meter according to IEC 868", ECT 2007, Kaunas, Lithuania, 3-4, May 2007
- B. Vahidi, M. Ghorat, E. Goodarzi, " Comparing voltage control and current control switches in modeling of flash on insulator string", ECT 2007, Kaunas, Lithuania, 3-4, May 2007
- B. Vahidi, J. Merikhi, F. Shishehgar, " Induced current in the brain of embryo due to short circuit current of power system", ECT 2007, Kaunas, Lithuania, 3-4, May 2007
- B. Vahidi, M. Shafiee, S. H. Hosseiniian, S. Jazebi, " Comparison between operating characteristics of ZnO arrester models", ECT 2007, Kaunas, Lithuania, 3-4, May 2007
- B. Vahidi, S. Jazebi, S. H. Hosseiniian, M. Shafiee, " Disk to disk fault diagnosis during impulse testing by using wavelet transform", ECT 2007, Kaunas, Lithuania, 3-4, May 2007
- B. Vahidi, Sh. Farokhi, " Electromagnetic Interference on Measuring Equipments of HV Substation Due to Switching", CIGRE 2007, Zagreb, Croatia, 18-21 April 2007
- S. H. Hosseiniian, B. Vahidi, " Development of a general circuit oriented program for linear network analysis", ICMSAO 2007, Abu Dhabi, UAE, 24-27 March 2007
- B. Vahidi, J. Merikhi, F. Shishehgar, " Induced Current In The Brain of Embryo Due To High Frequency Magnetic Field", ICMSAO 2007, Abu Dhabi, UAE, 24-27 March 2007
- H. M. Bidhendi, S. H. Hosseiniian and B. Vahidi, "Design and construction of passive current equalizer for self exciting induction generator", PSC 2006, Tehran-Iran, 2006
- S.H Hosseiniian, B.Vahidi and J. Bieza, "Frequency Dependent Network Equivalents for Harmonic and Transient Studies", IEEE TENCON 2006, Hong Kong, 2006
- B. Vahidi, M.R.Bank Tavakoli, G.B.Gharehpetian and S. H. Hosseiniian, "An Algorithm for Evaluating Inrush Current in Transformers Using Jiles-Atherton Theory of Ferromagnetic Hysteresis", IEEE TENCON 2006, Hong Kong, 2006
- F. Badrkhani and B. Vahidi, "Reducing the Switching Over-voltages in the Electric Arc Furnance System", TPE 2006, Ankara-Turkey, 2006
- B. Vahidi, F. Badrkhani and S. H. Hosseiniian, "Harmonic Elimination and Flicker Compensation Methods for Improving EAF Operation", ECT2006, Kaunas, Lithuania, 2006
- B. Vahidi, I. Rahimi Poordanjani and S. H. Hosseiniian, "Performance Analysis of Capacitive Divider Substation", ECT2006, Kaunas, Lithuania, 2006
- B. Vahidi, S. Ghahghahehzadeh, " Study of SVC's Fire Angle Variation to Enhance Capacitor Insulation Life-time Against Network Imposed Harmonics", IEEE/INMIC 2005, Pakistan
- B. Vahidi, Sh. Farokhi, " Electromagnetic Field Inside the Building Due To Lightning Stroke", IEEE/INMIC 2005, Pakistan
- M. Mohammadi, B. Vahidi, " Model of Corona for Transient Study" IEEE TENCON 2005,, Australia

- Sh. Farokhi, B. Vahidi, “ Deicing of Medium Voltage Power Transmission Lines by Joule Heating Method, IWAIS XI, June 2005, Montreal, Canada
- B. Vahidi, R. Shariati Nasab, Sadeghi, K. Rahemifar, “Computation of Currents and Losses in the Shield of Cables”, IEEE Power Tech 2005, Russia
- B. Vahidi, M. R. Tavakoli, H. Hashemifar, K. Rahemifar, “ Transient in the Operation of Induction and Synchronoud Motors with Vaccum Switches”, IEEE Power Tech 2005, Russia
- B. Vahidi, R. Shariati Nasab, S. Ghahghahehzadeh, E. Abedi, “ Ferroresonant Overvoltage Investigation in Wye-Wye Transformers on Transmission System by Using MATLAB”, 9<sup>th</sup> CHILE 2005, Spain
- B. Vahidi, R. Shariati Nasab, S. Ghahghahehzadeh, A. Khaniki, “ Modelling of Lightning Transient Overvoltage Using Different Models of Grounding System”, 9<sup>th</sup> CHILE 2005, Spain
- B. Vahidi, K. Poorhosseni, S. A. Kashi, S. H. Hosseinian “Overvoltage on HVDC Line Due to Firing Angle aqnd Line Length”, IEEE/PES 2005, China
- B. Vahidi, R. Shariati Nasab, J. Sh. Moghani, S. H. Hosseinian “ Three Dimensional Analysisd of Electric Field and Voltage Distribution on ZnO Surge Arrester with Broken Shed”, IEEE/PES 2005, China
- B. Vahidi, M. Amiri, “Analyzing the Protection Behaviour of long flashover arrester by ATP”, ISH 2005, China
- B. Vahidi, R. Shariati Nasab, J. Sh. Moghani, “ Analysis of Electric Field and Voltage Distribution on ZnO Surge Arrester for Pulloted Condition”, ISH 2005, China
- S. M. H. Hosseinini, G. B. Gharepatian, B. Vahidi, “Efficiency of Closing Resistor for limitting VFTO in IPC Transformer Winding”, 19<sup>th</sup> International Power System Conference (PSC 2004), Tehran, Iran, 22-24 Nov., 2004.
- B. Vahidi, S. Taghipour, S. A. Kashi, “Application of Charge Simulation Method to Compute the Ion Flow Uder HVDC Lines”, 2<sup>nd</sup> IEEE GCC 2004, Nov. 23-25, 2004, Manama, Bahrain
- B. Vahidi, Gh. Rassuly H., S. H. Hosseinian, “Effects of Different Parameters on Transformer Oil Electrification”, IEEE Tencon 2004, Nov. 21-24, 2004, Chiang Mai, Thailand
- B. Vahidi, R. Shariati Nasab, J. S. Moghani, S. H. Hosseinian, “Electric Field and Voltage Distribution on ZnO Surge Arrester”, IEEE Tencon 2004, Nov. 21-24, 2004, Chiang Mai, Thailand
- B. Vahidi, R. Shariati Nasab, J. S. Moghani, K. Raahemifar, “Analysis of Heat Distribution in ZnO Surge Arrester”, WSEAS International Conference on Power Engineering Systems, Oct. 12-15 , 2004, Rio de Janeiro, Brazil
- B. Vahidi, R. Shariati Nasab, J. S. Moghani, K. Raahemifar, “Computation of Capacitance Network of ZnO Surge arrester by Finite Element Method”, WSEAS International Conference on Power Engineering Systems, Oct. 12-15 , 2004, Rio de Janeiro, Brazil
- B. Vahidi, M. Mardaneh, K. Raahemifar, “Overvoltages Due to

- Switching of Capacitors Bank in Distribution System”, WSEAS International Conference on Power Engineering Systems, Oct. 12-15 , 2004, Rio de Janeiro, Brazil
- B. Vahidi, R. Shariati Nasab, J. S. Moghani, K. Raahemifar, “Effects of Grading rings and spacers on potential distribution of ZnO Arrester”, WSEAS International Conference on Power Systems and Electromagnetic Compatibility, Sept. 14-16, 2004, Izmir, Turkey
  - B. Vahidi, M. Kosari, K. Raahemifar, “Effects of Switched Capacitors on Adjustable Speed Drive Systems”, WSEAS International Conference on Power Systems and Electromagnetic Compatibility, Sept. 14-16, 2004, Izmir, Turkey
  - B. Vahidi, M. Heidari, K. Raahemifar, “Effects of Cable Models on Lightning Overvoltage Transfer from Transmission Lines to Distribution Systems”, WSEAS International Conference on Power Systems and Electromagnetic Compatibility, Sept. 14-16, 2004, Izmir, Turkey
  - B. Vahidi, A.R. Shaddel S., S. A. Kashi, “Application of Charge Simulation Method for Wind Turbine Lightning Protection”, 27<sup>th</sup> International Conference on Lightning Protection, 12-16 Sept. 2004, Avignon, France
  - B. Vahidi, M. Hidari, “Effects of Strokes to Transmission Lines on Distribution Cable Systems”, 27<sup>th</sup> International Conference on Lightning Protection, 12-16 Sept. 2004, Avignon, France
  - Kalantari, B. Vahidi, “Rupture of the SF6 Circuit Breakers”, Proceedings of 9<sup>th</sup> Distribution System Conference, 28-29 April 2004, Zandjan University, Zandjan, Iran, pp. 309-320.
  - Vahidi , A. Ghatrehsamani, S.A. Kashi, “Shunt Reactor Switching Simulation by EMTP”, Proceedings of IEEE MELECON, 12-15 May 2004, Dubrovnik, Croatia
  - B.Vahidi, Gh. Rassuly H., “Analysis of Static Electrification of Transformer Oil”, Proceedings of ICEE 2004, Mashhad University, Mashhad-Iran, May 2004, Vol. 5, pp 409-414
  - B. Porkar, S. Porkar, B. Vahidi, “Computation of Electromagnetic Fields Around Transmission Line Due to Lightning Strokes”, ISH2003, Netherland, Aug. 2003
  - B.Vahidi and M.A.Taghikhani, “Theoretical and Experimental Analysis of Thunder Disperser in Presence of Space Charge” , ISH2003, Netherland, Aug. 2003
  - B.Vahidi and R.A.Ghanbari, “High Voltage Statistical Analysis Software” , ISH2003, Netherland, Aug. 2003
  - B.Vahidi and R.Soltani, “Effects of Two Nearby Grounding Systems on Each Other During Fault in Substations” , ISH2003, Netherland, Aug. 2003
  - B.Vahidi,M.J.Alborzi, H.Aghaeinia and M.Abedi, “DC Corona Detection on Surfaces of Insulators Using Ultrasound Detectors” , ISH2003, Netherland, Aug. 2003
  - B.Vahidi,M.J.Alborzi, H.Aghaeinia and M.Abedi, Acoustic Diagnoses of AC Corona on The Surfaces of Insulators, IEEE Power Tech 2003, Bologna, Italy, June 2003
  - S. Porkar, B. Porkar, B. Vahidi, J. Moghani, G. Gharepatian, A New



Model for Simulation of Arc in Compressed Air and SF<sub>6</sub> Circuit Breakers, Proceedings of ICEE 2003, Shiraz University, Shiraz-Iran, May 2003, Vol. 4, pp 421-428

- M.R.Askari, B.Vahidi, "Distribution Lines Using Covered Conductors, A New Approach To Reducing The Corrosion", KNT university, Tehran, Iran, 17 Oct., 2002, pp 105-112
- B.Vahidi, M.J.Alborzi, H.Aghaeinia and M.Abedi, Ultrasound method for corona detection, Proceedings of ICEE 2003, Shiraz University, Shiraz-Iran, May 2003, Vol. 4, pp 279-286
- B. Vahidi, S.E.Naghibi, "Tower Model for Lightning Overvoltage Analysis By EMTP", ICLP 2002, Cracow, Poland, 2-6 Sept. 2002
- B. Vahidi, M.A. Taghikhani, "Comparison Between Theoretical And Experimental Simulation Of Thunder Disperser", ICLP 2002, Cracow, Poland, 2-6 Sept. 2002
- B.Vahidi, B.Entekhabi, A.Abdipour, "Induced current in human body due to transmission line", 10<sup>th</sup> Iranian Conference on Electrical Engineering (ICEE), Tabriz University, Tabriz, Iran, May, 2002
- B.Vahidi, A.Mohammadzadeh F., "Electric field calculation on insulators shell surfaces with shed in high voltage system", 10<sup>th</sup> Iranian Conference on Electrical Engineering (ICEE), Tabriz University, Tabriz, Iran, May, 2002
- B.Vahidi, H.S.Hosseini, H.R. Kamankesh, "Optimization of forces at flexible bus-bars in high voltage substations", International Conference on Bulk Power Transmission System Integration In Developing Countries, CIGRE Regional Meeting 2001, New Delhi, India, 8-10 Nov., 2001
- B.Vahidi, A.Mohammadzadeh F., "Effect of floating ring on voltage distribution across H.V insulator chain", ISH2001, Indian Institute of Science, Bangalore, India, 20-24 Aug., 2001
- B.Vahidi, A.M.Jafari, "Effects of nearby trees and width of line on lightning strokes", ISH2001, Indian Institute of Science, Bangalore, India, 20-24 Aug., 2001
- M.Maktubin, G.B.Gharepatin, B.Vahidi "Optimal design of linear transient overvoltage limiter", Iranian Conference on Electrical Engineering (ICEE), Power & Water Inst. Of Tech, Tehran-Iran, 7-9 May, 2001
- B.Vahidi, A.M.Jafari, "Application of electrogeometric model for analysis the distribution of current magnitudes of lightning strokes to structures", 9<sup>th</sup> Iranian Conference on Electrical Engineering (ICEE), Power & Water Inst. Of Tech, Tehran-Iran, 7-9 May, 2001
- A.Mohammadzadeh F., B.Vahidi, M.Uskouei, "Semiconductor foils as a solution for uniforming potential distribution in HV bushings", 15<sup>th</sup> International Power System Conference (PSC 2000), Tehran-Iran, 6-8 November, 2000
- M.Maktubin, B.Vahidi, "Optimum design of grounding grid of high voltage AC substations", 15<sup>th</sup> International Power System Conference (PSC 2000), Tehran-Iran, 6-8 November, 2000
- B.Vahidi, A.M.Jafari, "A new approach to distribution system lightning outage calculation", 25<sup>th</sup> ICLP, University of Patras, Rhodes - Greece 18 - 22 Sept., 2000

- Gh.R.Godarzi, M.Karari, B.Vahidi, "On line partial discharge detection of generators and other equipment by artificial neural network" , The Eighth Iranian Conference on Electrical Engineering (ICEE 2000) , Isfahan University of Tech. , Isfahan - Iran , May 17 - 19 , 2000
- B.Vahidi, "A new method for fast - fronted lightning current test on arrester" , International Power System Conference , Tehran - Iran , Nov. 1999
- M.Jafari, B.Vahidi, "A new method for calculating transmission lines outage due to direct stroke of lightning to phase conductor" , International Power System Conference , Tehran - Iran , Nov. 1999
- B.Vahidi, K.J.Cornick, D.A.Greaves, "Effects of multiple stroke on ZnO surge arresters" , 24<sup>th</sup> ICLP , United Kingdom , Sept. 1998.
- B.Vahidi, K.J.Cornick, D.A.Greaves, "A new approach to fast transient response of ZnO surge arresters" , 24<sup>th</sup> ICLP , United Kingdom , Sept. 1998.
- B.Vahidi, K.J.Cornick, D.A.Greaves, "Plasma gun - opto electronic control firing system for single and multiple stroke impulse generator" , 24<sup>th</sup> ICLP (International Conference on Lightning Protection), United Kingdom , Sept. 1998.
- B.Vahidi, K.J.Cornick, D.A.Greaves, "Fiber optic link for fast - fronted impulse current measurements" , High Voltage Measurement and Calibration ( 3<sup>rd</sup> European Conference), Milan - Italy , 9 - 11 Oct. , 1996
- B.Vahidi, K.J.Kornick, "Non - standard lightning waveshapes A summery of present knowledge" , 9<sup>th</sup> ISH ,Graz, Austria , Aug. 28 - Sept 1, 1995
- R.Moini, Kordi, B.Vahidi, M.Abedi, "Comparison Between LEMP&NEMP induced overvoltage in 33 kv overhead distribution lines" , The 10<sup>th</sup> Anniversary ACES (Applied Computational Electromagnetics) , California - USA, March 21 - 26 , 1994
- B.Vahidi, "A new approach to evaluation of lightning induced overvoltage and its comparison with present methods" , The first Iranian Conference on Electrical Engineering (ICEE 93) , Amirkabir University of Tech. , Tehran - Iran , May 18 - 21 , 1993
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