

RESUME

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ACADEMIC DEGREES

Ph.D. 1986, Department of Electrical and Computer Engineering, Ben-Gurion University of the Negev, Israel.
MBA 1999, Faculty of Industrial and Management Engineering, Technion, IIT, Israel.
M.Sc. 1982, Department of Electrical and Computer Engineering, Ben-Gurion University of the Negev, Israel.
B.Sc. 1980, Department of Electrical and Computer Engineering, Ben-Gurion University of the Negev, Israel.

RESEARCH INTERESTS

- Development of Power Quality Monitoring Systems.
- Analysis of power quality data.
- Development of a new method for direct temperature sensing of under ground high voltage power cables.
- Performance evaluation of electric and hybrid vehicles.
- Evaluation of energy storage devices.
- Development of methods for determination of high voltage insulators condition.
- dynamic phenomena associated with electrical power systems.

ACADEMIC APPOINTMENTS

2014 – present Senior Lecturer ORT Braude College, Department of Electrical and Electronic Engineering
1997 – present Adjunct Senior Lecturer, The Technion – Israel Institute of Technology, Faculty of Mechanical Engineering

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| 1992 – 2013 | Adjunct Lecturer (Teacher C, equivalent to Associate Professor),
Tel-Aviv University, School of Architecture |
| 1993 – 2014 | Adjunct Senior Lecturer, ORT Braude College, Department of
Electrical and Electronic Engineering |

TEACHING EXPERIENCE

The Technion–Israel Institute of Technology

Graduate Courses:

Advanced automotive propulsion systems

Undergraduate Courses:

Electrical Drives

Tel Aviv University

Graduate Courses:

High Voltage Circuit Breakers

Components of Distribution Systems

Undergraduate Courses:

Illumination and Electrical Facilities

ORT Braude College of Engineering:

Undergraduate Courses:

Power Systems A

Energy Conversion A

Energy Conversion B

Power Electronics

New courses

Power Quality

High Voltage Technologies

PUBLIC PROFESSIONAL ACTIVITIES (Last 10 years):

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| 2011 – present | Member (IEC representative), Technical Committee 265 on Power
Quality, the Standards Institution of Israel |
| 2010 – present | Member (SEEEI representative), Technical Committee 1317 on
Electric Vehicle, the Standards Institution of Israel |
| 2009-present | Member Society of Power Quality SEEEI |

2004- present	Editorial Board Member, Electricity and People, SEEEI
2007-2013	Member Cigre Committee B2 Working Group 21 "Insulators" Arc Protection and Diagnosis for Composite String Insulators
2010 – 2011	Member (IEC representative), Expert Committee 220202 on Power Quality for Wind Turbines, the Standards Institution of Israel
2007-2009	Principal Investigator, Use of Leakage Current Monitoring System for Pollution Monitoring on Overhead Lines, CEATI project # T063700-3209

PROFESSIONAL EXPERIENCE:

1986 – 2014	Senior Expert (highest professional degree, equivalent to department head), Head Insulation & Insulators Section, Electrical R&D laboratory, Israel Electric Corp. Ltd. P.O.Box 10, Haifa 31000, Israel
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IEC ACTIVITIES (Last 10 years)

2013-2014	Member Working Group the Influence of Renewable Power Sources on Power Quality
2012-2014	Head Working Group Development of a Low Voltage Power Quality Monitoring System
2010-2014	Member IEC Technology Innovation Center Classification Committee
2007-2014	Member Research & Development Projects Classification Committee
2004-2014	Head Working Group Development of a High Voltage Power Quality Monitoring System
2004-2014	Member Steering Committee Power Quality Monitoring System for High and Low Voltages
2008-2012	Member Steering Committee Integration of "Better-Place" Electric Cars to the Israeli Transportation and Power Systems
2011	Head Working Group Evaluation of Devices for Efficiency Enhancement of Electrical Apparatus

2010	Head Working Group Technical Solutions for the Operation of High Voltage Power Cables
2009	Member Working Group Criteria for Power quality of Supply for High Voltage Customers
2007	Member Working Group Characterization of a Power Quality Data Base
2005-2011	Member Working Group Prevention of Bird Related Faults in the Transmission Network
2008-2010	Member Working Group the Influence of Better-Place Electric Cars Project on Electric Infrastructure in Israel
2008	Member Working Group Pollution Emissions Due to the Generation of Electricity for Electric Cars Charging in Israel
2006-2009	Member Expert Group for Innovation Research and Development Projects
2006	Head Working Group Development of Emergency Procedures for the R&D Division
2004	Member Working Group Reliability field Demonstration for Power Quality Monitoring and Analysis System

MAIN TOPICS DELT WITH AT THE ISRAEL ELECTRIC CORP.:

Development of a Load Shedding System – The load shedding system is designed to protect the electrical system in cases of sudden shortages of generation capacity. As the Israeli power system is not interconnected to the neighboring systems the load shedding system is of utmost importance. Our work focused on research and development of topics intended to improve the efficiency and reliability of the system and ensuring optimal operation. As a result of the research the load shedding system was improved and updated. The load shedding system operates successfully for many years and prevents blackouts following major faults in the transmission network.

Electric Transportation – Head of electric vehicle project at the IEC including electric and hybrid vehicles. The main goal of the research was to increase the usage of electric transportation (trains, cars) in Israel by electrification of the vehicle fleet. The IEC purchased a license to use and promote Zinc-Air battery technology in the Middle East. The Zinc-Air battery technology is very promising in its high energy density which could ensure long vehicle range between consecutive battery charges. Many research projects, experiments and surveys were performed. The research studied the impact of different electric vehicle penetration scenarios on the performance of the power distribution and generation systems. Another research aspect focused on pollution emissions due to the charging of electric vehicle batteries.

Construction of a Nationwide Power Quality Monitoring System – Head of the project. The growing dependence of nationwide economics on power quality led power companies to deal with this subject. Economically it is not reasonable to seek perfect power quality, since it leads to huge investments. Therefore a power quality level suitable for most customers should be utilized. The power quality monitoring system of the IEC is composed of 250 measuring instruments spread all over the country, it is one of the largest systems in the world. The measurements are performed according to international standards. The project was supported by extensive research in many topics including the determination of the responsible party for the power quality deterioration, the immunity of consumers to different kinds of power quality deviations etc.

Research of Power Quality data – Head of a working group. The power quality data collected by the monitoring system is being constantly researched, analyzed and reported. Many research projects are performed. Voltage dips and short interruptions are the most important aspects of power quality and are the main reasons for customer complaints. One research focused on these aspects and analyzed the main causes for the disturbances. As a consequence of the research several improvements were recommended in order to improve power quality of supply. Another important aspect of power quality is the harmonic content of the voltage and the current. Harmonics are generated both by the consumers and by the utility it is not easy to determine who is responsible. Another research project focuses on the harmonic trend for several years; it is believed that the harmonic content of the voltage is increasing due to the increase share of power electronics.

Research on the Influence of Photovoltaic Facilities on Power Quality of Supply - Head of a working group. In recent years, many countries and power utilities have started to integrate the power systems with advanced Photovoltaic (PV) facilities for electricity production. Construction and utilization of PV installations has economic and environmental benefits that are obvious and well known. However, the disadvantages due to reduction of the power quality of supply should be reviewed and addressed. The two main challenges involved in operating PV facilities are dealing with unstable source of energy and power quality problems. This research reviews the effect of PV facilities on the power quality of supply in Israel.

Continuous Temperature monitoring of Under Ground High Voltage Power Cables – Head of the project. The number of high voltage underground cables is expected to increase rapidly in the future as a result of the population density increase in urban areas and environmental restrictions. The temperature monitoring relies on optoelectronic equipment that launches laser light into fiber-optic cable. A fraction of the light that is reflected back is temperature dependent. This research focuses on introduction of the monitoring method to the Israeli power transmission network. The monitoring results provide temperature profile along the power cable. The research enables reliable operation of the power cable and reduces the danger of overheating of the power cable.

On-Line wireless PD Monitoring System for Contamination Detection on High Voltage Overhead Transmission Lines Insulators - Head of the project. Contaminated insulators in polluted areas may lead to flashovers and outages if they are not cleaned periodically. Resulting voltage sags and interruptions of the supply voltage can cause considerable loss of capital to the industry and penalties to electric utilities. The research used Partial Discharge (PD) measurements for the detection of contaminated insulators. The method was laboratory researched and field trialed for monitoring of

ceramic isolator strings for 400kV and 161kV transmission lines. Following the successful research the technology was listed as one of 14 technologies to watch in 2014 by Smart Grid News, it is now implemented on operational high voltage lines in Israel.

MEMBERSHIP OF SOCIETIES AND OTHER QUALIFICATIONS:

Senior Member of IEEE.

Member of the Association of Engineers and Architects in Israel.

Chartered Engineer in Israel.

Senior Member of SEEEI.

GRADUATE STUDENTS

M. Sc. student Supervision

Completed theses:

1. Yehuda Khaksur (joint supervisor Prof. R. Rabinovici, Ben-Gurion University of the Negev), "Power Quality as a Result of Privatization of the Israeli Power Supply System", 2004.

LIST OF PUBLICATIONS

Original Papers in Profession Journals with Referees

1. B. Z. Kaplan and D. Kottick, "Another Stabilized Generator Model for Three-Phase Sine Waves", Math. and Compu. in Simulation, Vol. 23, pp. 277-279, 1981.
2. B. Z. Kaplan and D. Kottick, "Use of a Three-Phase Oscillator Model for the Compact Representation of Synchronous Generators", IEEE Trans. on Magnetics, Vol. MAG-19, pp. 1480-1486, 1983.
3. B. Z. Kaplan and D. Kottick, "A Compact Representation of Synchronous Motors and Unregulated Synchronous Generators", IEEE Trans. on Magnetics, Vol. MAG-21, pp. 2657-2663, 1985.
4. D. Kottick and B. Z. Kaplan, "A Novel Method for Regulating Terminal Voltages in a Laboratory Synchronous Generator System", Proc. of the IEEE, Vol. 74, pp. 763-764, 1986.
5. J. Daboul, B. Z. Kaplan and D. Kottick, "Analysis of Symmetrically Stabilized Oscillator and some of its Applications", IEEE Trans. on Circuits and systems, Vol. CAS-34, pp. 561-565, 1987.
6. D. Kottick and B. Z. Kaplan, "Employment of Three-Phase Compact Oscillator Model for Representing Comprehensively Two Synchronous Generator System", Electric Machines and Power Systems, Vol. 12, pp. 363-375, 1987.

7. B. Z. Kaplan and D. Kottick, "Modeling and Simulation of Synchronous Motors Connected to a Source of Variable Frequency", IMACS 1989, pp. 243-245, 1989.
8. Y. Halevi and D. Kottick, "Optimal Load Shedding System", IEEE Trans. on Energy Conversion, Vol. 8, pp. 207-213, 1993.
9. D. Kottick, M. Blau and D. Edelstein, "Battery Energy Storage for Frequency Regulation in an Island Power System", IEEE Trans. on Energy Conversion, Vol. 8, pp. 455-459, 1993.
10. D. Kottick and M. Blau, "Operational and Economic Benefits of Battery Energy Storage Plants", Int. J. on Electrical Power & Energy Systems, Vol. 15, pp. 345-349, 1993.
11. D. Kottick, "Dynamic Phenomena in Island Power Systems", Electric Machines & Power Systems, Vol. 22, No. 4, pp. 481-492, 1994.
12. D. Kottick and O. Or, "Neural-Networks for the Calculation of the Minimum Frequency during Forced Outage of a Generating Unit", Electric Power & Energy Systems, Vol. 17, No. 6, pp. 371-375, 1995.
13. D. Kottick and B. Z. Kaplan, "Development of a Model for Representing Dynamic Behavior of Variable Speed Drives Synchronous Motors", IEE Proc. Electric Power Application, Vol. 142 pp. 269- 274, 1995.
14. D. Kottick, M. Blau and Y. Frank, "Reliability of Supply to the Consumers as a Function of the Installed Generation Reserve Margin", Electric Power Systems Research, Vol. 33, pp. 63-67, 1995.
15. D. Kottick and O. Or, "Neural-Networks for Predicting the Operation of a Load Shedding System", IEEE Trans. on Power Systems, Vol. 11, pp. 1350-1358, 1996.
16. V. Backmutsky, A. Shenkman, B. Shklyar, V. Zmudikov, D. Kottick and M. Blau, "A New DSP Method for Frequency Average Estimation in Power Systems", Electric Machines & Power Systems, Vol. 24, pp. 785-800, 1996.
17. G. Ginsberg, A. Serri, E. Flecher, D. Kottick, E. Karsenty and J. Shemer, "Mortality from Vehicular Particulate Emission in Tel-Aviv-Jaffa", World Transport Policy & Practice, Vol. 4, pp. 32-38, 1998.
18. V. Backmutsky, A. Shenkman, G. Vaisman, V. Zmudikov, D. Kottick and M. Blau, "New DSP Method for Investigating Dynamic Behavior of Power Systems", Electric Machines & Power Systems, Vol. 27, pp. 399-427, 1999.
19. A. Friedman, N. Shaked, E. Perel, F. Gartzman, M. Sinvani, Y. Wolfus, D. Kottick, J. Furman and Y. Yeshurun, "HT-SMES Operating at Liquid Nitrogen Temperatures for Electric Power Quality Improvement Demonstrating", IEEE Trans. On Applied Superconductivity, Vol. 13, pp. 1875-1878, 2003.
20. D. Kottick and I. Kviatkovsky, "Israel Monitors Cable Temperature", Transmission & Distribution World, Vol. 60, pp. 52-56, June 2008.

21. D. Kottick, "Power Quality Monitoring System - Voltage Dips, Short Interruptions and Flicker", EPQU Magazine, Vol. 3, Issue 2, 2008.
22. D. Kottick and J. Furman, "The Influence of Photovoltaic Facilities on Power Quality of Supply", Submitted for publication.

Patents

1. R. Knijnik, D. Kottick, L. Mashlovesky, E. Wolfson, L. Frenkel, System and Method for Assessing Faulty Power-Line Insulator Strings, US 2013/0179099.

Original Papers in Conference Proceedings

1. B. Z. Kaplan and D. Kottick, "Possible Contribution to the Modeling of Multi-generator Systems",
Presentation and Proceedings publication at the "MELECON'81", Tel-Aviv, 24-28 May, 1981.
2. B. Z. Kaplan and D. Kottick, "A Synchronous Generator Model Based on Three-Phase Oscillator",
Presentation and Proceeding publication at the International AMSE Conference Modeling & Simulation, Vol. 6, pp. 30-32, Paris, 1-3 July, 1982.
3. B. Z. Kaplan and D. Kottick, "A Compact Representation of Synchronous Machines",
Presentation and Proceedings publication at the "MELECON'83", Athens, 24-26 May, 1983.
4. D. Kottick and B. Z. Kaplan, "A Compact Representation of a Two Synchronous Generators System",
Presentation and Proceedings publication at the Summer Computer Simulation Conference, Boston, 23-26 July, 1984.
5. Y. Porat, D. Kottick and A. Bianu, "Reliability of Supply in the Insular Israeli Power System",
Presentation and Proceedings publication at the 10th PSCC Conference, Graz, 19-25 August, 1990.
6. D. Kottick, M. Blau and M. Winokur, "An Introduction to Dynamic Security of Supply in the Israeli Power System",
Presentation and Proceedings publication at the 17th Convention of Elec. Engineers in Israel, Tel-Aviv, 5-6 May, pp. 338-341 1991.
7. Y. Malachi, M. Winokur and D. Kottick, "Long Term Simulation of the Israel Power System Dynamic Response - Case Study",
Presentation and Proceedings publication at the 3rd International Conference on Power Monitoring and Control, London, 26-28 June, 1991.
8. A. Sat, D. Kottick, O. Maimon and R. Romano, "Expert System for Intentional Power Cuts",
Proceedings publication at the 4th International Conference on Ind. & Eng. Applications of AI and Expert Systems, Hawaii 2-5 June, pp. 419-426, 1991.

9. D. Kottick and O. Or, "Preliminary Results of Implementation of Neural-Networks for Dynamic Security Assessment",
Presentation and Proceedings publication at the 7th Conference on industrial Engineering and Management, Haifa, 28-29 April, 1992.
10. D. Kottick, M. Blau and Y. Halevi, "Evaluation of an Underfrequency Load Shedding Optimization Algorithm",
Presentation and Proceeding publication at the 11th PSCC Conference, Avignon, 30 August - 3 September, pp. 437-441, 1993.
11. M. Blau, D. Kottick and Y. Frank, "A Battery Energy Storage Facility as a Substitute for spinning Reserve",
Presentation and Proceeding publication at the 4th International Conference Batteries for Energy Storage, Berlin, 27 September - 1 October, pp. 102-113, 1993.
12. V. Backmutsky, D. Kottick, B. Shklyar M. Blau and V. Zmudikov, "Comparison of Methods and Algorithms for Accurate Frequency Trend Estimation Following Emergency Transients in Power Systems",
Presentation and Proceeding publication at the IEEE/NTUA Athens Power Tech Conference, Planning, Operation and Control of Today's Electric Power Systems, Athens, 5-8 September, pp. 271-274, 1993.
13. D. Kottick and Y. Frank, "Electric Vehicles Load Forecasts",
Presentation and Proceeding publication at the UNIPEDE Second Conference on the Application of Electricity, Barcelona, 25-27 September 1995.
14. D. Kottick, Y. Frank and M. Blau, "Long Term Electric Energy Demand Forecasts for the Electric Vehicle Sector in Several Global Scenarios in Israel",
Presentation and Proceeding publication at the 1st congress on Electric Power & Motion Control, Tel Aviv, 5-6 May, 1997.
15. L. Tartakovsky, Y. Zvirin, M. Gutmann, D. Kottick, Y. Frank and M. Blau, "Batteries for Electric Vehicles State of the Art",
Presentation and Proceeding publication at the 1st congress on Electric Power & Motion Control, Tel Aviv, 5-6 May, 1997.
16. Y. Porat and D. Kottick, "Planning and Operational Considerations Allowing Secure and Economic Operation Development of Small Isolated Systems",
Presentation and Proceeding publication at the 1st Mediterranean Conference on Power Generation, Transmission and Distribution, Nicosia, 16-18, November, 1998.
17. L. Tartakovsky, D. Kottick, Y. Frank, M. Gutman and Y. Zvirin, "Road Tests of Electric Vehicles Powered by Zinc-Air Battery",
Presentation and Proceeding publication at the 7th International Conference of the Israel Society for Ecology and Environmental Quality Sciences in Jerusalem, June 13 - 18, 1999.
18. D. Kottick, L. Tartakovsky, M. Gutman and Y. Zvirin, "Results of Electric Demonstration Program",

Presentation and Proceeding publication at the 21st IEEE Convention of Electrical and Electronics Engineers in Israel, Tel-Aviv, 11-12, April, pp. 318-321, 2000.

19. D. Kottick and J. Furman, " Power Quality Monitoring System - Voltage Dips and Short Interruptions", Electrical Power Quality & Utilization Magazine, Vol. 3, Issue 2, 2008.
Presentation and Proceeding publication at the 9th IEEE International Conference Electrical Power Quality and Utilization, Barcelona, 9-11 October 2007.
20. E. Katz and D. Kottick, "Integration of Power Quality Monitoring and Lighting Detection Systems in Israel",
Presentation and Proceeding publication at the Inter. Symposium on Lightning Protection, Curitiba Brazil, 9-13 November, 2009.
21. A. Levinzon, D. Kottick, R. Knijnik and L. Frenkel, "Online Wireless PD Monitoring System for Detection of Contamination over High Voltage Power Overhead Transmission Lines".
Presentation and Proceeding publication at the CMDM 2011, 19-23 September, 2011, Bucharest, Romania.
22. A. Levinzon, D. Kottick, R. Knijnik and L. Frenkel, "On-line Wireless PD Monitoring System for Contamination Detection on High Voltage Overhead Transmission Lines Insulators".
Presentation and Proceeding publication at 2012 Cigre Session 44, 26-31 August, 2012, Paris, France.

R&D Reports

1. D. Kottick, "Introducing Battery Energy Storage to the Israeli Power System", Israel Electric Corp., Report No. RD-474, Jan. 1987.
2. D. Kottick and S. Feldman, "Simulation of Major Events in the Load Shedding System During 1986 and Improvement Suggestions", Israel Electric Corp., Report No. RD-483, Aug. 1987.
3. S. Fischer and D. Kottick, "The Load Shedding System Performance in 1987", Israel Electric Corp., Report No. RD-500, Nov. 1988.
4. Y. Malachi, D. Kottick and M. Winokur, "Long Term Simulation of the Israel Power System Dynamic Response - Case Study", Israel Electric Corp., Report No. RD-502, May 1989.
5. D. Kottick, M. Blau and A. Bianu, "The Power Generation System Reliability", Israel Electric Corp., Report No. RD-505, March 1989.
6. D. Kottick, M. Blau, A. Bianu and Y. Frank, "Determination of the Long Term Power Generation Planning Reliability Criterion", Israel Electric Corp., Report No. RD-517, Dec. 1989.
7. D. Kottick and M. Mejhiborsky, "Examination of the Operational Roles Following the Commission of the Rutenberg Power Station", Israel Electric Corp., Report No. RD-523, May 1990.

8. A. Sat and D. Kottick, "A Prototype Expert System for Intentional Power Cuts", Israel Electric Corp., Report No. RD-525, July 1990.
9. M. Blau and D. Kottick, "Battery Energy Storage in Israel", Israel Electric Corp., Report No. RD-527, Aug. 1990.
10. D. Kottick and V. Lev, "Operational Indices for the Israel Power Generation System", Israel Electric Corp., Report No. RD-530, Aug. 1990.
11. D. Kottick, M. Blau and D. Edelstein, "Battery Energy Storage for Frequency Regulation in Israel", Israel Electric Corp., Report No. RD-538, Dec. 1990.
12. D. Kottick, Y. Malachi, M. Blau and M. Winokur, "Security of Supply in the Israeli Power System", Israel Electric Corp., Report No. RD-541, Feb. 1991.
13. D. Kottick and M. Blau, "Development of an Optimal Load Shedding System", Israel Electric Corp., Report No. RD-561, Dec. 1991.
14. D. Kottick and O. Or, "Neural Network System Designed for Calculation of the Minimal Frequency During Generation Unit Forced Outage", Israel Electric Corp., Report No. RD-568, Feb. 1992.
15. D. Kottick and M. Blau, "Electrical Vehicle - Present Situation and Future Aspects", Israel Electric Corp., Report No. RD-570, Feb. 1992.
16. M. Blau, Y. Frank and D. Kottick, "Battery Energy Storage Plant Project", Israel Electric Corp., Report No. RD-580, July 1992.
17. D. Kottick, M. Blau, Y. Malachi, O. Or, "Dynamic Security Assessment in the Israeli Power System", Israel Electric Corp., Report No. RD-566, Aug. 1992.
18. Y. Frank, M. Blau and D. Kottick, "The Load Shedding System Performance in 1991", Israel Electric Corp., Report No. RD-588, Dec. 1992.
19. M. Blau, D. Kottick and A. Bianu, "Reliability of Supply of the IEC during 1991", Israel Electric Corp., Report No. RD-593, Feb. 1993.
20. Y. Frank, M. Blau and D. Kottick, "The Load Shedding System Performance in 1992", Israel Electric Corp., Report No. RD-596, July 1993.
21. D. Kottick and V. Lev, "Long Term Electricity Load Forecasts in the Electric Transportation Sector", Israel Electric Corp., Report No. RD-601, November 1993.
22. D. Kottick, M. Blau and O. Or, "Neural-Networks for Load Forecasting", Israel Electric Corp., Report No. RD-606, October 1993.
23. Y. Frank and D. Kottick, "Fuel Cells - State of the Art and Expected Developments", Israel Electric Corp., Report No. RD-609, December 1993.

24. M. Blau, Y. Frank and D. Kottick, "Determination of a Reliability Criterion for Long Term Planning of the Generation System", Israel Electric Corp., Report No. RD-613, March 1994.
25. D. Kottick and M. Zimin, "Dynamic Phenomena in an Interconnected Israeli - Egyptian Power System", Israel Electric Corp., Report No. RD-619, June, 1994.
26. D. Kottick, M. Blau, M. Berman and Y. Malachi, "Security of Supply in the Israeli Power System - Period Report", Israel Electric Corp., Report No. RD-620, June 1994.
27. Y. Frank, D. Kottick and M. Blau, "Propulsion of Electric and Hybrid Vehicles - State of the Art and Expected Developments", Israel Electric Corp., Report No. RD-621, July 1994.
28. Y. Frank, M. Blau and D. Kottick, "The Load Shedding System Performance in 1993", Israel Electric Corp., Report No. RD-622, August 1994.
29. Y. Frank, M. Blau and D. Kottick, "The Load Shedding System Performance in 1994", Israel Electric Corp., Report No. RD-630, July 1995.
30. M. Blau, D. Kottick and Y. Frank, "Generic Algorithm for Optimization of the Load Shedding System", Israel Electric Corp., Report No. RD-633, July 1995.
31. D. Kottick and Y. Frank, "Long Term Electricity Load Forecasts in the Agriculture Sector", Israel Electric Corp., Report No. RD-637, November 1995.
32. Y. Nusbaum, S. Frant, M. Blau, D. Kottick and A. Bianu, "The Reliability Criterion for Long Term Planning of the Generation System", Israel Electric Corp., Report No. RD-634, January 1996.
33. Y. Frank, M. Blau and D. Kottick, "The Load Shedding System Performance in 1995", Israel Electric Corp., Report No. RD-640, July 1996.
34. L. Tartakovski, M. Gutman, Y. Zvirin, Y. Frank and D. Kottick, "Air Condition System for Electric Vehicle", Israel Electric Corp., Report No. RD-645, October 1996.
35. Y. Frank, M. Blau and D. Kottick, "The Load Shedding System Performance in 1996", Israel Electric Corp., Report No. RD-666, November 1997.
36. D. Kottick, Y. Frank, L. Tartakovsky, M. Gutman, Y. Zvirin, "Zinc-Air Electric Vehicle – Experiments Planning, Regenerative Braking and Air Conditioning System", Israel Electric Corp., Report No. RX-5, July 1998.
37. Y. Frank, M. Blau and D. Kottick, "The Load Shedding System Performance in 1997", Israel Electric Corp., Report No. RX-6, August 1998.
38. D. Kottick, "Continuous Temperature Monitoring in Under-Ground H.V. Cables", Israel Electric Corp., Report No. RL-86, February 1999.
39. L. Tartakovsky, M. Gutman, Y. zvirin and D. Kottick, "Test Performance of Electric Vehicle Powered by Zinc-Air Battery", Israel Electric Corp., Report No. RL- 178, April 1999.

40. D. Kottick, "Battery Energy Storage for Peak Shaving – State of the Art" Israel Electric Corp., Report No. RL-153, May 2000.
41. D. Kottick, "Demonstration Test Results of Continuous Temperature Monitoring in Underground H.V. Cables", Israel Electric Corp., Report No. RL-278, June 2000.
42. D. Kottick, "Portable Temperature Monitoring System for Underground Buried HV Power Cables", Israel Electric Corp., Specification E-465, July 2000.
43. D. Kottick, "Power Quality Monitoring System", Israel Electric Corp., Specification S-484, December 2001.
44. D. Kottick, "Power Quality Monitoring Systems in the World – Survey", Israel Electric Corp., Report No. RL-485, January 2002.
45. D. Kottick, "Accessories for Temperature Monitoring System for Underground Buried HV Power Cables", Specification S-88, February 2002.
46. D. Kottick, J. Furman, L. Musafi, L. Dubovoy and R. Hida, "Summary of the Technical Stage of the Bid to Purchase a Power Quality Monitoring System", Israel Electric Corp., Report No. RL-388, 2002.
47. S. Arieli, D. Kottick, Y. Furman, Y. Katz, "Evaluation of a Continuous Temperature Monitoring Method for High Voltage Power Cables", Israel Electric Corp., Report No. RL-545, 2004.
48. R. Montianu, G. Kalman, D. Kottick, G. Shinfine, "Analysis of Results Obtained from a Leakage Current Monitoring System", Israel Electric Corp., Report No. RL-558, 2004.
49. A. Yeager, Y. Gratsch, A. Segev, D. Kottick, Y. Furman, S. Arieli, "The Influence of Current Asymmetry on Magnetic Field Near High Voltage Power Lines", Israel Electric Corp., Report No. RL-255, 2005.
50. D. Kottick, J. Furman, L. Musafi and L. Dubovoy, "Power Quality Monitoring System, Quarter Report for the South District", Israel Electric Corp., Report No. RL-507, 2006.
51. D. Kottick, J. Furman, L. Musafi and L. Dubovoy, "Power Quality Monitoring System, Quarter Report for the North District", Israel Electric Corp., Report No. RL-483, 2006.
52. D. Kottick, J. Furman, L. Musafi and L. Dubovoy, "Power Quality Monitoring System, Quarter Report for the Haifa District", Israel Electric Corp., Report No. RL-476, 2006.
53. D. Kottick, J. Furman, L. Musafi and L. Dubovoy, "Power Quality Monitoring System, Quarter Report for the Jerusalem District", Israel Electric Corp., Report No. RL-457, 2006.
54. D. Kottick, J. Furman, L. Musafi and L. Dubovoy, "Power Quality Monitoring System, Quarter Report for the Dan District", Israel Electric Corp., Report No. RL-451, 2006.
55. D. Kottick and, J. Furman, "Power Quality Monitoring System Voltage Dip and Short Interruptions", Israel Electric Corp., Report No. RL-383, 2006.

56. D. Kottick, E. Katz J. Furman, L. Musafi and L. Dubovoy, "The Influence of Lightning Strike Near High Voltage Line on Power Quality", Israel Electric Corp., Report No. RL-316, 2006.
57. D. Kottick, J. Furman, L. Musafi and L. Dubovoy, "Power Quality Monitoring System, Annual Report for Medium Voltage Customers", Israel Electric Corp., Report No. RL-314, 2006.
58. D. Kottick, J. Furman, L. Musafi and L. Dubovoy, "Power Quality Monitoring System, Annual Report for High Voltage Customers", Israel Electric Corp., Report No. RL-315, 2006.
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