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Professor of Electrical Engineering
Wright State University
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RESEARCH INTERESTS

Power Electronics, Switching-Mode PWM and Resonant DC/DC Power Converters, DC/AC Inverters, Resonant Rectifiers, RF Tuned Power Transistor Amplifiers and Oscillators, Power Management, Magnetic Devices, Semiconductor Device Modeling, Power Integrated Circuits, Electronic Ballasts, Lighting Systems, Modeling and Controls of Power Converters, Sensors, Electronic Circuits, Integrated Circuits, Energy Harvesting, Renewable Energy, Energy Scavenging, CAD, and Engineering Education.

EDUCATION

1966-1971 Department of Electronics, Technical University of Warsaw, Warsaw, Poland
1972-1973 Post Graduate Study in Engineering Education, Technical University of Warsaw, Warsaw, Poland

DEGREES

1971 **M.S.**
Thesis: "Gunn's diode oscillator for X-band with varactor tuning"
Advisors: Professor Adam Smolinski and co-adviser Professor Janusz Dobrowolski
Department of Electronics, Technical University of Warsaw, Warsaw, Poland

1978 **Ph.D.**
Dissertation: "High-efficiency tuned power transistor amplifier"
Advisor: Professor Jan Ebert
Department of Electronics, Technical University of Warsaw, Warsaw, Poland

1984 **D. Sci.**
Dissertation: "High-efficiency tuned power amplifiers, frequency multipliers, and oscillators," Warsaw Technical University Publisher, pp. 1-143, Warsaw 1984
Department of Electronics, Technical University of Warsaw, Warsaw, Poland

PROFESSIONAL ACADEMIC EXPERIENCE

1972-1978 Instructor, Department of Electronics, Technical University of Warsaw, Warsaw, Poland
1978-1984 Assistant Professor, Department of Electronics, Technical University of Warsaw, Warsaw, Poland

Courses taught High-Frequency High-Power Techniques
 Radio Transmitters
 Electromagnetic Field Theory
 Microwave Theory and Technique
 Electronic Measurements
 Fundamentals of Electronics
 Circuit Theory
 Electronic Circuits and Systems
 Radio Transmitters Laboratory
 Radio Receivers Laboratory
 Electronics Laboratory
Radio Electronics Laboratory, Chair, 1978-1984
Electronic Apparatus Laboratory, Chair, 1978-1984.

1984-1985 Visiting Professor, Department of Electrical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061

Courses taught	EE3101	Electromagnetic Fields
	EE3201	Electronics I
	EE3202	Electronics II
	EE4201	Electronic Circuits and Systems I

1985-1990 Assistant Professor, Department of Electrical Engineering, Wright State University, Dayton, OH 45435

1990-1994 Associate Professor, Department of Electrical Engineering, Wright State University, Dayton, OH 45435

1994-pres Professor, Department of Electrical Engineering, Wright State University, Dayton, OH 45435

Courses taught	EE 331/531	Electronic Devices
	EE 431/631	Electronic Circuits
	EE 434/634	Electronic Circuits Laboratory
	EE 444/644	Linear Integrated Circuits
	EE 449/649	Pulse and Digital Circuits
	EE 499/699	Special Problems in Engineering
	EE 499	Design Industrial Clinic
	EE 741	Power Semiconductor Devices
	EE 742	Power Electronics II
	EE 743	Power Electronics III
	EE 744	RF Power Amplifiers
	EE 890	Independent Studies
	EE 899	Ph. D. Dissertation
	EGR 891	Ph.D. Seminar

ADVISING

17 Ph.D. students
81 M.S. students
6 post-doctoral positions
3 sabbatical positions

PROFESSIONAL NON-ACADEMIC EXPERIENCE

1984 Design Automation, Inc., 809 Massachusetts Avenue, Lexington, MA 02173, (617) 862-8998
Project Engineer responsible for designing high-efficiency switching-mode dc/dc converters

1991 Wright-Patterson AFB, Wright Laboratory, Dayton, OH, Summer Faculty Fellowship

1995 Wright-Patterson AFB, Wright Laboratory, Dayton, OH, Summer Faculty Fellowship

1996 Wright-Patterson AFB, Wright Laboratory, Dayton, OH, Summer Faculty Fellowship

PROFESSIONAL MEMBERSHIPS

IEEE, Fellow	2005-present
IEEE, Senior Member	1991-2004
Power Electronics Society	1991-present
Circuit and Systems Society	1991-present
Industrial Electronics Society	1991-present
Aerospace and Electronic Systems Society	1991-present
Industry Applications Society	1991-present
Tau Beta Pi	1992-present
Electrical Manufacturing and Coil Winding Association	1991-present
EMCWA, Board of Directors	1991-present
American Society for Engineering Education	2007-present

AWARDS

1977 President of the Technical University of Warsaw

1978 President of the Technical University of Warsaw

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- 1980 President of the Technical University of Warsaw
- 1981 Minister of Science, University Education, and Technology
- 1982 Minister of Science, University Education, and Technology
- 1983 Polish Academy of Sciences
- 1984 President of the Technical University of Warsaw
- 1985 Minister of Science, University Education, and Technology
- 1990 Harrel V. Noble Award, IEEE Dayton Section
- 1991 Excellence in Research Award, College of Engineering and Computer Science, Wright State University
- 1991 Presidential Award for Faculty Excellence in Research, Wright State University
- 1993 Excellence in Teaching Award, College of Engineering and Computer Science, Wright State University
- 1993 Nominated for the Presidential Teaching Excellence Award, Wright State University
- 1994 Nominated for the Presidential Teaching Excellence Award, Wright State University
- 1994 Electrical Manufacturing and Coil Winding for outstanding contribution
- 1995 Award for Outstanding Professional Achievement, the Affiliate Societies Council of the Engineering and Science Foundation of Dayton
- 1995 Outstanding Faculty Member, College of Engineering and Computer Science, Wright State University
- 1995 Presidential Award, Outstanding Faculty Member, Wright State University
- 1996-2000 Brage Golding Distinguished Professor of Research Award, Wright State University
- 1997 Excellence in Professional Service Award, College of Engineering and Computer Science, Wright State University
- 1997 Nominated for the Presidential Professional Service Award, Wright State University
- 2000 Excellence in Teaching Award, College of Engineering and Computer Science, Wright State University
- 2000 Nominated for the Presidential Teaching Award, Wright State University
- 2002 Excellence in Professional Service Award, College of Engineering and Computer Science, Wright State University
- 2002 Nominated for the Presidential Professional Service Award, Wright State University
- 2003 Excellence in Research Award, College of Engineering and Computer Science, Wright State University
- 2004 Board of Trustees' Award for Faculty Excellence, Wright State University (This is the highest award given by the university)
- 2005 Finalist for the Excellence in Teaching Award, College of Engineering and Computer Science, Wright State University
- 2006 Nominated for Robert J. Kegerreis Distinguished Professor of Teaching by CECS
- 2007 Nominated for Robert J. Kegerreis Distinguished Professor of Teaching by CECS
- 2007 Finalist for the Excellence in Teaching Award, College of Engineering and Computer Science, Wright State University
- 2008 Nominated for Robert J. Kegerreis Distinguished Professor of Teaching by CECS
- 2008 Outstanding Teacher Award from the American Society for Engineering Education, North-Central Section.
- 2008 Excellence in Teaching Award, College of Engineering and Computer Science, Wright State University.
- 2008 Nominated for the 2009 Kyoto Prize in Advanced Technology.
- 2009 National Professor of Technical Sciences of Poland conferred by the President of Poland.
- 2009 Nominated for Robert J. Kegerreis Distinguished Professor of Teaching by CECS.
- 2009-2013 Robert J. Kegerreis Distinguished Professor of Teaching, Wright State University.
- 2010 Award from the Senate of the State of Ohio.
- 2010 Southwestern Ohio Council for Higher Education (SOCHE) Teaching Award.
- 2010 Green County Award

PUBLICATIONS

Books

1. M. K. Kazimierczuk and D. Czarkowski, *Resonant Power Converters*, John Wiley & Sons, New York, NY, pp. 1-481, 1995, ISBN 0-471-04706-6 (The monograph/textbook is intended for graduate courses and practicing engineers); M. K. Kazimierczuk and D. Czarkowski, *Resonant Power Converters*, IEEE Press and John Wiley & Sons, New York, NY 2nd Edition, pp. 1-595, ISBN 978-0-470-90538-8, 2011.
2. M. K. Kazimierczuk and D. Czarkowski, *Solutions for Resonant Power Converters*, John Wiley & Sons, New York, NY, pp. 1-80, 1995, ISBN 0-471-12849-X, ISBN-978-0-471-12849-6.

3. A. Aminian and M. K. Kazimierczuk, *Electronic Devices: A Design Approach*, Prentice Hall, Upper Saddle River, NJ, pp. 1-810, 2004, ISBN-10: 0-13-013560-7 and ISBN-13: 978-0130135605 (The text book is intended for undergraduate courses, 3 quarters or 2 semesters).
4. M. K. Kazimierczuk and A. Aminian, *Laboratory Manual to Accompany Electronic Devices: A Design Approach*, Prentice Hall, Upper Saddle River, NJ, pp. 1-149, 2004, ISBN 0-13086203-7 (The book is intended for undergraduate courses).
5. M. K. Kazimierczuk and A. Aminian, *Instructor's Solutions Manual to Accompany Electronic Devices: A Design Approach*, Prentice Hall, Upper Saddle River, NJ, pp. 1-543, 2004. ISBN 0-13-049984-6.
6. M. K. Kazimierczuk, *Pulse-Width Modulated DC-DC Power Converters*, John Wiley & Sons, New York, NY, 2008, pp. 1-782, ISBN-10: 0-470-77301-4, ISBN-13: 978-0-470-77301-7. (The monograph/textbook is intended for graduate students, researchers, and practicing engineers).
7. M. K. Kazimierczuk, *Solutions Manual for Pulse-Width Modulated DC-DC Power Converters*, John Wiley & Sons, New York, NY, 2008, ISBN-978-0-470-74101-6.
8. M. K. Kazimierczuk, *RF Power Amplifiers*, John Wiley & Sons, New York, NY, 2008, pp. 1-405, ISBN 978-0-470-77946-0. (The monograph/textbook is intended for graduate students, researchers, and practicing engineers). Best Seller.
9. M. K. Kazimierczuk, *Solutions Manual for RF Power Amplifiers*, John Wiley & Sons, New York, NY, 2008, ISBN 978-0-4-70-72134-6.
10. M. K. Kazimierczuk, *High-Frequency Magnetic Components*, John Wiley & Sons, New York, NY, 2009, pp. 1-486, ISBN-978-0-470-71453-9. (The monograph/textbook is intended for graduate students, researchers, and practicing engineers).
11. M. K. Kazimierczuk, *Solutions Manual for High-Frequency Magnetic Components*, John Wiley & Sons, New York, NY, 2009. ISBN: 978-0-470-72133-9.
12. M. K. Kazimierczuk, *Laboratory Manual for Electronic Circuits*, Prentice Hall, 2011. ISBN-10-1-256068438-3 and ISBN-13-978-1-256068438-3, 2011.

Refereed Journal Articles

1. M. K. Kazimierczuk and J. M. Modzelewski, "Drive-transformerless Class-D voltage switching tuned power amplifier," *Proceedings of the IEEE*, vol. 68, no. 6, pp. 740-741, June 1980.
2. M. K. Kazimierczuk, "Class E tuned power amplifier with shunt inductor," *IEEE Journal of Solid-State Circuits*, vol. SC-16, no. 2, pp. 2-7, February 1981.
3. J. Ebert and M. K. Kazimierczuk, "Class E high-efficiency tuned power oscillator," *IEEE Journal of Solid-State Circuits*, vol. SC-16, no. 2, pp. 62-66, April 1981.
4. M. K. Kazimierczuk, "A new approach to the design of tuned power oscillators," *IEEE Transactions on Circuits and Systems*, vol. CAS-29, no. 4, pp. 261-267, April 1982.
5. J. Ebert and M. K. Kazimierczuk, "High-efficiency RF power transistor amplifier," *Bull. Polon. Sci., Ser. Sci. Tech.*, vol. 25, no. 2, pp. 135-138, 1977.
6. J. Ebert and M. K. Kazimierczuk, "Applying the Class E concept to the RF power generator," *Bull. Acad. Polon. Sci., Ser. Sci. Tech.*, vol. 29, no. 1-2, pp. 79-87, 1981.
7. M. K. Kazimierczuk, "Effects of the collector current fall time on the Class E tuned power amplifier," *IEEE Journal of Solid-State Circuits*, vol. SC-18, no. 2, pp. 181-193, April 1983.
8. M. K. Kazimierczuk, "Exact analysis of Class E tuned power amplifier with only one inductor and one capacitor in load network," *IEEE Journal of Solid-State Circuits*, vol. SC-18, no. 2, pp. 214-221, April 1983.
9. M. K. Kazimierczuk, "Parallel operation of power transistors in switching amplifiers," *Proceedings of the IEEE*, vol. 71, no. 12, pp. 1456-1457, December 1983.

10. M. K. Kazimierczuk, "Charge-control analysis of Class E tuned power amplifier with only one inductor and one capacitor in load network," *IEEE Transactions on Electronic Devices*, vol. ED-31, no. 3, pp. 366-373, March 1984.
11. M. K. Kazimierczuk, "Accurate measurements of lifetime of excess base stored charge at high collector currents," *IEEE Transactions on Electronic Devices*, vol. ED-31, no. 3, pp. 374-378, March 1984.
12. M. K. Kazimierczuk, "Collector amplitude modulation of Class E tuned power amplifier," *IEEE Transactions on Circuits and Systems*, vol. CAS-31, no. 6, pp. 543-549, June 1984.
13. M. K. Kazimierczuk and N. O. Sokal, "Cause of instability of power amplifier with parallel-connected power transistors," *IEEE Journal of Solid-State Circuits*, vol. SC-19, no. 4, pp. 541-542, August 1984.
14. M. K. Kazimierczuk, "Class E tuned power amplifier with non-sinusoidal output voltage," *IEEE Journal of Solid State Circuits*, Vol. SC-21, pp. 575-581, August 1986.
15. M. K. Kazimierczuk, "Generalization of conditions for 100-percent efficiency and nonzero output power in power amplifiers and frequency multipliers," *IEEE Transactions on Circuits and Systems*, vol. CAS-33, no. 8, pp. 805-807, August 1986.
16. M. K. Kazimierczuk and K. Puczko, "Exact analysis of Class E tuned power amplifier at any Q and switch duty cycle," *IEEE Transactions on Circuits and Systems*, vol. CAS-34, no. 2, pp. 149-159, February 1987.
17. M. K. Kazimierczuk, "High-speed driver for switching power MOSFETs," *IEEE Transactions on Circuits and Systems*, vol. CAS-35, no. 2, pp. 254-256, February 1988.
18. M. K. Kazimierczuk, "Design-oriented analysis of boost zero-voltage-switching resonant dc/dc converter," *IEEE Transactions on Power Electronics*, vol. PE-3, no. 2, pp. 126-136, April 1988.
19. M. K. Kazimierczuk, "Steady-state analysis of a buck zero-current-switching resonant dc/dc converter," *IEEE Transactions on Power Electronics*, vol. PE-3, no. 3, pp. 286-296, July 1988.
20. M. K. Kazimierczuk, "A network theorem dual to Miller's theorem," *IEEE Transactions on Education*, vol. E-31, pp. 265-269, no. 6, November 1988.
21. M. K. Kazimierczuk and X. T. Bui, "Class E dc/dc converters with an inductive impedance inverter," *IEEE Transactions on Power Electronics*, vol. PE-4, no. 1, pp. 124-135, January 1989.
22. J. Jozwik and M. K. Kazimierczuk, "Dual Sepic PWM switching-mode dc/dc power converter," *IEEE Transactions on Industrial Electronics*, Vol. IE-36, no. 2, pp. 64-70, February 1989.
23. M. K. Kazimierczuk and W. A. Tabisz, "Class C-E high-efficiency tuned power amplifier," *IEEE Transactions on Circuits and Systems*, vol. CAS-36, no. 3, pp. 421-428, March 1989.
24. M. K. Kazimierczuk and W. D. Morse, "State-plane analysis of zero-voltage-switching resonant dc/dc converters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. AES-25, no. 2, pp. 232-239, March 1989.
25. M. K. Kazimierczuk and W. D. Morse, "State-plane analysis of zero-current-switching resonant dc/dc power converters," *IEEE Transactions on Power Electronics*, vol. PE-4, pp. 265-271, April 1989.
26. M. K. Kazimierczuk, "Analysis of buck/boost zero-current-switching resonant dc/dc converter," *IEE Proceedings, Part B, Electric Power Applications*, vol. 136, no. 3, pp. 127-135, May 1989.
27. M. K. Kazimierczuk and J. Jozwik, "Optimal topologies of resonant dc/dc converters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. AES-25, no. 2, pp. 362-372, May 1989.
28. M. K. Kazimierczuk and J. Jozwik, "Class E zero-voltage-switching rectifier with a series capacitor," *IEEE Transactions on Circuits and Systems*, vol. CAS-36, no. 5, pp. 926-928, June 1989.
29. M. K. Kazimierczuk and K. Puczko, "Power-output capability of Class E amplifier at any loaded Q and switch duty cycle," *IEEE Transactions on Circuits and Systems*, vol. CAS-36, no. 8, pp. 1142-1143, August 1989.
30. M. K. Kazimierczuk and X. T. Bui, "Class E dc/dc converters with a capacitive impedance inverter," *IEEE Transactions on Industrial Electronics*, vol. IE-36, no. 8, pp. 425-433, August 1989.
31. M. K. Kazimierczuk, "Analysis and design of buck/boost zero-voltage-switching resonant dc/dc converter," *IEE Proceedings, Pt. G, Circuits, Devices, and Systems*, Vol. 136, no. 4, pp. 157-166, August 1989.
32. M. K. Kazimierczuk and K. Puczko, "Class E tuned power amplifier with an antiparallel diode or a series diode at switch, with any loaded Q and switch duty cycle," *IEEE Transactions on Circuits and Systems*, vol. CAS-36, no. 9, pp. 1201- 209, September 1989.

33. M. K. Kazimierczuk and J. Jozwik, "DC/DC converter with Class E zero-voltage-switching inverter and Class E zero-current-switching rectifier," *IEEE Transactions on Circuits and Systems*, vol. CAS-36, no. 11, pp. 1485-1488, November 1989.
34. M. K. Kazimierczuk and J. Jozwik, "Resonant dc/dc converter with Class-E inverter and Class-E rectifier," *IEEE Transactions on Industrial Electronics*, vol. IE-36, no. 6, pp. 568-578, November 1989.
35. M. K. Kazimierczuk, "Class E low dv_D/dt rectifier," *IEE Proceedings, Pt. B, Electric Power Applications*, vol. 136, pp. 257-262, November 1989.
36. M. K. Kazimierczuk and J. Jozwik, "Class E² narrow-band resonant dc/dc converters," *IEEE Transactions on Instrumentation and Measurement*, vol. IM-38, no. 6, pp. 1064-1068, December 1989.
37. M. K. Kazimierczuk and J. Jozwik, "Class E zero-voltage-switching and zero-current-switching rectifiers," *IEEE Transactions on Circuits and Systems*, vol. CAS-37, no. 3, pp. 436-444, March 1990.
38. M. K. Kazimierczuk and X. T. Bui, "Class-E amplifier with an inductive impedance inverter," *IEEE Transactions on Industrial Electronics*, vol. IE-37, no. 2, pp. 160-166, April 1990.
39. J. Jozwik and M. K. Kazimierczuk, "Analysis and design of Class-E² dc/dc converter," *IEEE Transactions on Industrial Electronics*, vol. IE-37, no. 2, pp. 173-183, April 1990.
40. M. K. Kazimierczuk, "Analysis of Class E zero-voltage-switching rectifier," *IEEE Transactions on Circuits and Systems*, vol. CAS-37, no. 6, pp. 747-755, June 1990.
41. M. K. Kazimierczuk and J. Jozwik, "Class E² resonant dc/dc power converter," *IEE Proceedings, Pt. G, Circuits, Devices and Systems*, vol. 137, no. 6, pp. 193-196, June 1990.
42. M. K. Kazimierczuk and J. Jozwik, "Analysis and design of Class E zero-current-switching rectifier," *IEEE Transactions on Circuits and Systems*, vol. CAS-37, no. 8, pp. 1000-1009, August 1990.
43. M. K. Kazimierczuk and K. Puczko, "Class E low dv/dt synchronous rectifier with controlled duty ratio and output voltage," *IEEE Transactions on Circuits and Systems*, vol. CAS-38, no. 10, pp. 1165-1172, October 1991.
44. M. K. Kazimierczuk, "Class D current-driven rectifiers for resonant dc/dc converter applications," *IEEE Transactions on Industrial Electronics*, vol. IE-38, no. 10, pp. 344-354, October 1991.
45. M. K. Kazimierczuk, "Class D voltage-switching MOSFET power amplifier," *IEE Proceedings, Part B, Electric Power Applications*, vol. 138, no. 11, pp. 285-296, November 1991.
46. M. K. Kazimierczuk, W. Szaraniec, and S. Wang, "Analysis and design of parallel resonant converter at high Q_L ," *IEEE Transactions on Aerospace and Electronic Systems*, vol. AES-28, no. 1, pp. 35-50, January 1992.
47. M. K. Kazimierczuk and S. Wang, "Frequency-domain analysis of series resonant converter for continuous conduction mode," *IEEE Transactions on Power Electronics*, vol. PE-6, no. 2, pp. 270-279, April 1992.
48. M. K. Kazimierczuk and W. Szaraniec, "Analysis of Class E rectifier with a series capacitor," *IEE Proceedings, Part G, Circuits, Devices and Systems*, vol. 139, pp. 269-276, June 1992.
49. M. K. Kazimierczuk, "Synthesis of phase-modulated dc/ac inverters and dc/dc converters," *IEE Proceedings, Pt. B, Electric Power Applications*, vol. 139, pp. 387-394, July 1992.
50. A. Ivascu, M. K. Kazimierczuk, and S. Birca-Galateanu, "Class E resonant low dv/dt rectifier," *IEEE Transactions on Circuits and Systems*, vol. CAS-39, no. 8, pp. 604-613, August 1992.
51. D. Czarkowski and M. K. Kazimierczuk, "Linear circuits models of PWM flyback and buck/boost converters," *IEEE Transactions on Circuits and Systems*, vol. CAS-39, no. 8, pp. 688-693, August 1992.
52. M. K. Kazimierczuk and W. Szaraniec, "Class D zero-voltage switching inverter with only one shunt capacitor," *IEE Proceedings, Part B, Electric Power Applications*, vol. 139, pp. 449-456, September 1992.
53. D. Czarkowski and M. K. Kazimierczuk, "Static- and dynamic-circuit models of PWM buck-derived dc-dc converters," *IEE Proceedings, Part G, Circuits, Devices and Systems*, vol. 139, pp. 669-679, December 1992.
54. M. K. Kazimierczuk, N. Thirunarayan, and S. Wang, "Analysis of series-parallel resonant converter," *IEEE Transactions on Aerospace and Electronic Systems*, vol. AES-29, no. 1, pp. 88-99, January 1993.
55. M. K. Kazimierczuk and W. Szaraniec, "Analysis of Class E low di/dt rectifier with a series inductor," *IEEE Transactions Aerospace and Electronic Systems*, vol. AES-29, no. 1, pp. 278-287, January 1993.
56. M. Mikolajewski and M. K. Kazimierczuk, "Zero-voltage-ripple rectifiers and dc/dc resonant converters," *IEEE Transactions on Power Electronics*, vol. PE-6, no. 1, pp. 12-17, January 1993.

57. A. Reatti, M. K. Kazimierczuk, and R. Redl, "Class E full-wave low dv/dt rectifier," *IEEE Transactions on Circuits and Systems*, vol. CAS-40, no. 2, pp. 73-85, February 1993.
58. M. K. Kazimierczuk and N. Thirunarayan, "Class D voltage-switching inverter with tapped resonant inductor," *IEE Proceedings, Pt. B., Electric Power Applications*, vol. 140, pp. 177-185, May 1993.
59. D. Czarkowski and M. K. Kazimierczuk, "Single-capacitor phase-controlled series resonant converter," *IEEE Transactions on Circuits and Systems*, vol. CAS-40, no. 6, pp. 383-391, June 1993.
60. M. K. Kazimierczuk and W. Szaraniec, "Class D-E resonant dc/dc converter," *IEEE Transactions on Aerospace and Electronics Systems*, vol. AES-29, no. 8, pp. 963-976, July 1993.
61. D. Czarkowski and M. K. Kazimierczuk, "Energy-conservation approach to modeling PWM dc-dc converters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. AES-29, no. 8, pp. 1059-1063, July 1993.
62. D. Czarkowski and M. K. Kazimierczuk, "Phase-controlled series-parallel resonant converter," *IEEE Transactions on Power Electronics*, vol. PE-8, no. 3, pp. 309-319, July 1993.
63. M. K. Kazimierczuk and M. K. Jutty, "Phase-modulated series-parallel resonant converter with series load," *IEE Proceedings, Pt. B, Electric Power Applications*, vol. 140, pp. 297-306, September 1993.
64. M. K. Kazimierczuk and W. Szaraniec, "Electronic ballast for fluorescent lamps," *IEEE Transactions on Power Electronics*, vol. PE-8, no. 4, pp. 386-395, October 1993.
65. A. Ivascu, M. K. Kazimierczuk, and S. Birca-Galateanu, "Class E resonant low di/dt rectifier," *IEE Proceedings, Part G, Circuits, Devices and Systems*, vol. 140, pp. 417-423, December 1993.
66. M. K. Kazimierczuk, D. Czarkowski, and N. Thirunarayan, "A new phase-controlled parallel resonant converter," *IEEE Transactions on Industrial Electronics*, vol. IE-40, pp. 542-552, December 1993.
67. D. Czarkowski and M. K. Kazimierczuk, "Application of state feedback with integral control to pulse-width modulated push-pull dc-dc converter," *IEE Proceedings, Part D, Control Theory and Applications*, Vol. 141, pp. 99-103, March 1994.
68. M. K. Kazimierczuk, B. Tomescu, and A. Ivascu, "Class E resonant rectifier with a series capacitor," *IEEE Transactions on Circuits and Systems*, vol. 41, no. 12, pp. 885-890, December 1994.
69. M. K. Kazimierczuk and R. Cravens II, "Closed-loop characteristics of voltage-mode-controlled PWM boost dc-dc converter with an integral-lead controller," *Journal of Circuits, Systems and Computers*, vol. 4, no. 4, pp. 429-458, December 1994.
70. M. K. Kazimierczuk and N. Thirunarayan, "Dynamic performance of MCTs under inductive load conditions," *Journal of Circuits, Systems and Computers*, vol. 4, no. 4, pp. 471-485, December 1994.
71. M. K. Kazimierczuk and M. Jutty, "Fixed-frequency phase-controlled full-bridge resonant converter with a series load," *IEEE Transactions on Power Electronics*, vol. PE-10, no. 1, pp. 9-18, January 1995.
72. D. Czarkowski, L. R. Pujara, and M. K. Kazimierczuk, "Robust stability of state-feedback control of PWM dc-dc push-pull converter," *IEEE Transactions on Industrial Electronics*, vol. IE-41, no. 1, pp. 108-111, February 1995.
73. M. K. Kazimierczuk and A. Abdulkarim, "Current-source converter with parallel-resonant circuit," *IEEE Transactions on Industrial Electronics*, vol. IE-42, no. 2, pp. 199-208, April 1995.
74. D. Czarkowski and M. K. Kazimierczuk, "Static characteristics of MOS-controlled thyristors - Analysis, simulation and experimental results," *Journal of Circuits, Systems and Computers*, vol. 5, no. 1, pp. 65-80, March 1995.
75. M. K. Kazimierczuk and R. Cravens II, "Open and closed-loop dc and small-signal characteristics of PWM buck-boost converter for CCM," *Journal of Circuits, Systems and Computers*, vol. 5, no. 3, pp. 261-303, September 1995.
76. M. K. Kazimierczuk, N. Thirunarayan, B. T. Nguyen, and J. A. Weimer, "Experimental static and dynamic characteristics of MOS-controlled thyristors for resistive loads," *Journal of Circuits, Systems and Computers*, vol. 5, no. 3, pp. 393-410, September 1995.
77. R. E. Siferd, R. C. Cravens II, and M. K. Kazimierczuk, "CMOS PWM control circuit with programmable dead time," *Journal of Circuits, Systems and Computers*, vol. 5, no. 3, pp. 429-441, September 1995.
78. M. K. Kazimierczuk, "Reverse recovery of power pn junction diodes," *Journal of Circuits, Systems and Computers*, vol. 5, no. 4, pp. 589-606, December 1995.

79. M. Bartoli, N. Neferi, A. Reatti, and M. K. Kazimierczuk, "Modeling winding losses in high-frequency power inductors," *Journal of Circuits, Systems and Converters*, vol. 5, no. 4, pp. 607-626, December 1995.
80. M. K. Kazimierczuk and R. C. Cravens II, "Experimental results for the small-signal study of the PWM boost DC-DC converter with an integral-lead controller," *Journal of Circuits, Systems and Computers*, vol. 5, no. 4, pp. 747-755, December 1995.
81. M. K. Kazimierczuk and R. S. Geise, "Single-loop current-mode control of a PWM boost dc-to-dc converter with a non-symmetric phase control," *Journal of Circuits, Systems and Computers*, vol. 5, no. 4, pp. 699-734, December 1995.
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153. M. K. Kazimierczuk and H. Sekiya, "Design of ac resonant inductors using area product method," IEEE Energy Conversion Congress and Exhibition, San Jose, CA, September 20-24, 2009, pp. 994-1001.
154. J. J. Lee and M. K. Kazimierczuk, "Effects of load changes on the control-to-output transfer function of a buck-boost converter in CCM," Proceedings of Electrical Manufacturing and Coil Winding Conference, Nashville, TN, September 28-30, 2009.
155. N. Kondrath and M. K. Kazimierczuk, "Analysis and design of tapped-inductor PWM buck converter in CCM," Proceedings of Electrical Manufacturing and Coil Winding Conference, Nashville, TN, September 28-30, 2009.
156. H. Sekiya and M. K. Kazimierczuk, "Design of RF-choke inductors using core geometry coefficient," Proceedings of Electrical Manufacturing and Coil Winding Conference, Nashville, TN, September 28-30, 2009.
157. D. Murthy Bellur and M. K. Kazimierczuk, "Review of zero-current switching flyback dc-dc converters," Proceedings of Electrical Manufacturing and Coil Winding Conference, Nashville, TN, September 28-30, 2009.
158. V. P. Galigerkere and M. K. Kazimierczuk, "Role of power electronics in renewable energy systems," Proceedings of Electrical Manufacturing and Coil Winding Conference, Nashville, TN, September 28-30, 2009.
159. V. P. Galigerkere, D. Murthy Bellur, and M. K. Kazimierczuk, "An overview and simulation of dc-dc-ac and Z-source grid connected inverters," Proceedings of Electrical Manufacturing and Coil Winding Conference, Nashville, TN, September 28-30, 2009.
160. N. Sagawa, H. Sekiya, and M. K. Kazimierczuk, "Computer-aided design of Class-E switching circuits taking into account optimized inductor design," IEEE 25th Applied Power Electronics Conference, Palm Springs, February 21-25, 2010, pp. 2212-2219.
161. R. C. Fitch and M. K. Kazimierczuk, "Solenoid inductors fabricated in SU-8 for hybrid microwave circuit integration," IEEE MTT International Microwave Symposium, Anaheim, CA, May 23-28, 2010.
162. X. Wei, H. Sekiya, T. Suetsugu, S. Kuroiwa, T. Suetsugu, and M. K. Kazimierczuk, "Effect of MOSFET gate-to-drain parasitic capacitance on Class-E power amplifier," IEEE International Symposium on Circuits and Systems, Paris, France, May 30-June 2, 2010, pp. 3200-3203.
163. N. Kondrath and M. K. Kazimierczuk, "Duty-ratio-to-inductor current and duty ratio-to-output voltage transfer functions of peak current-mode controlled DC-DC PWM buck converter in CCM," IEEE International Symposium on Circuits and Systems, Paris, France, May 30-June 2, 2010, pp. 2734-2737.
164. D. Murthy-Bellur and M. K. Kazimierczuk, "Two-switch flyback-forward PWM DC-DC converter with reduced switch voltage stress," IEEE International Symposium on Circuits and Systems, Paris, France, May 30-June 2, 2010, pp. 3705-3708.
165. T. Suetsugu and M. K. Kazimierczuk, "Power efficiency calculation of Class E amplifier with nonlinear capacitance," IEEE International Symposium on Circuits and Systems, Paris, France, May 30-June 2, 2010, pp. 2714- 2717.

166. L. Sarri, A. Reatti, and M. K. Kazimierczuk, "Modeling of a solar battery charger based on PWM buck-boost converter operated under discontinuous conduction mode," Proc. 35th Photovoltaic Specialists Conference, Honolulu, Hawaii, June 20-25, 2010.
167. L. Sarri, A. Luchetta, A. Reatti, and M. K. Kazimierczuk, "Frequency-domain analysis of PWM dc-dc converter including exact rms parasitic resistances for photovoltaic applications," Proc. 35th Photovoltaic Specialists Conference, Honolulu, Hawaii, June 20-25, 2010.
168. L. Sarri, A. Reatti, and M. K. Kazimierczuk, "Development and optimization of a low concentration PV/T system," Proc. 35th Photovoltaic Specialists Conference, Honolulu, Hawaii, June 20-25, 2010.
169. M. K. Kazimierczuk and H. Sekiya, "Novel core-selection criterion for inductor with high core loss," IEEE Energy Conversion Congress and Exhibition, Atlanta, GA, September 12-16, 2010.
170. R. C. Fitch, Jr., M. K. Kazimierczuk, J. K. Gillespe, A. G. Mattamana, P. L. Prlando, K. S. Groves, and T. K. Quach, "Hybrid integration of microwave circuit solenoid inductors and ALGaN/GaN HEMTs using an Su-8 photosensitive epoxy interposer layer," 218th Electrochemical Society's 2010 Meeting, State-of-the-Art Program on Compound Semiconductors 52 (SOTAPOCS 52), Las Vegas, NV, October 10-15, 2010.
171. T. Poomalee, K. Jirasereeamornkul and M. K. Kazimierczuk, "Vacuum tube amplifiers using electronic dc transformer," Audio Engineering Society 129th Convention, San Francisco, CA, November 4-7, 2010.
172. M. K. Kazimierczuk and H. Sekiya, "Core geometry coefficient for resonant inductors," Proceedings of Electrical Manufacturing and Coil Winding Conference, Dallas, TX, October 18-20, 2010.
173. V. P. Galigerkere and M. K. Kazimierczuk, "Dynamic response of PWM Z-source inverter and PWM Z-source converter," Proceedings of Electrical Manufacturing and Coil Winding Conference, Dallas, TX, October 18-20, 2010.
174. N. Kondrath, A. Kondrath, and M. K. Kazimierczuk, "Bandwidth of transformers," Proceedings of Electrical Manufacturing and Coil Winding Conference, Dallas, TX, October 18-20, 2010.
175. R. Wojda and M. K. Kazimierczuk, "Comparison of winding resistance with litz wire and solid wire," Proceedings of Electrical Manufacturing and Coil Winding Conference, Dallas, TX, October 18-20, 2010.
176. V. P. Galigerkere and M. K. Kazimierczuk, "Small-signal modeling of PWM Z-source converter by circuit-averaging technique," IEEE International Symposium on Circuits and Systems, Rio de Janeiro, Brazil, May 15-18, 2011.
177. R. Wojda and M. K. Kazimierczuk, "Design of Class F₃ RF power amplifier," IEEE International Symposium on Circuits and Systems, Rio de Janeiro, Brazil, May 15-18, 2011.
178. T. Nagashima, X. Wei, H. Sakiya, and M. K. Kazimierczuk, "Power conversion efficiency of Class-E amplifier outside nominal operations," IEEE International Symposium on Circuits and Systems, Rio de Janeiro, Brazil, May 15-18, 2011.
179. T. Suetsugu and M. K. Kazimierczuk, "Analysis of transient behavior of Class E amplifier due to load variations," IEEE International Symposium on Circuits and Systems, Rio de Janeiro, Brazil, May 15-18, 2011.
180. T. Suetsugu and M. K. Kazimierczuk, "Diode peak voltage clamping of Class E amplifier," IEEE International Symposium on Circuits and Systems, Rio de Janeiro, Brazil, May 15-18, 2011.

Science Citation Index: Over 1549 citations of journal papers in the ISI Thomson-Reuters Index, 20/year in some years, The average citation of journal papers per paper = 12.71, h-index = 23.

Productivity: Approximately 4.5 articles in top international archival referred journals per year, 5 international conference papers per year, and 1 book per 2 years for the last 24 years.

Journal Articles (In Polish)

1. J. Ebert and M. K. Kazimierczuk, "New method of improving efficiency of RF power amplifier," Tech. Report of Inst. of Radio-electronics, Technical University of Warsaw, no. 31, pp. 1-19, 1977.
2. J. Ebert and M. K. Kazimierczuk, "New method of improving efficiency of high frequency power amplifier," Prz. Telekom., vol. 40, no. 6, pp. 165-168, 1977.

3. M. K. Kazimierczuk, "Theory of Class E high-frequency power amplifier," *Rozpr. Elektrot.*, vol. 25, no. 4, pp. 1957-1986, 1979.
4. M. K. Kazimierczuk, "Theoretical analysis of Class E amplifier at arbitrary switch duty ratio," *Rozpr. Elektrot.*, vol. 25, no. 4, pp. 987-1003, 1979.
5. M. K. Kazimierczuk, "Theory of Class E high-frequency power amplifier with series inductor," *Arch. Elektrot.*, vol. 29, no. 1, pp. 207-228, 1980.
6. M. K. Kazimierczuk, "Analysis of Class E amplifier with series inductor under optimum operating conditions," *Rozpr. Elektrot.*, vol 26, no. 3, pp. 707-721, 1980.
7. M. K. Kazimierczuk, "Collector power loss and collector efficiency of Class E amplifier with shunt capacitor," *Elektronika*, vol. 21, no. 5, pp. 24-30, 1980.
8. M. K. Kazimierczuk, "Theory of Class E high-frequency power amplifier with series capacitor," *Arch. Elektrot.*, vol. 29, no. 2, pp. 487-490, 1980.
9. M. K. Kazimierczuk, "Theoretical analysis of Class E amplifier with series capacitor at arbitrary switch-duty ratio," *Arch. Elektrot.*, vol. 29, no. 3, pp. 709-723, 1980.
10. M. K. Kazimierczuk, "Analysis of the Class E tuned power amplifier with series inductor," *Tech. Report, Inst. of Radio-electronics, Technical University of Warsaw*, no. 57, pp. 1-21, 1980.
11. J. Ebert and M. K. Kazimierczuk, "Concept of Class E tuned power oscillator," *Tech. Report, Inst. of Radio-electronics, Tech. Univ. of Warsaw*, no. 54, pp. 1-15, 1980.
12. M. K. Kazimierczuk, "Experimental verification of evaluation method for power loss and collector efficiency of Class E amplifier with shunt capacitor," *Elektronika*, vol. 22, no. 4, pp. 30-35, 1981.
13. M. K. Kazimierczuk, "Class E high-power high-frequency amplifier," *Prz. Telekom.*, vol. 44, no. 2, pp. 35-43, 1981.
14. M. K. Kazimierczuk, "Analysis, design, and experimental results for Class E amplifier," *Rozpr. Elektrot.*, vol., 27, no. 3, pp. 495-521, 1981.
15. M. K. Kazimierczuk, "Analysis of Class E amplifier with series inductor at arbitrary switch-duty ratio," *Arch. Elektrot.*, vol. 30, no. 2, pp. 493-504, 1981.

Conference Papers (In Polish)

1. M. K. Kazimierczuk, "Class E high-frequency power amplifier with series inductor," *III Kraj. Konf. Teoria Obwodow i Układy Elektroniczne, Stawiska K. Gdanska, 24-27.10.1979, Teksty Referatow, ITE PG, IPE PW, SUE KEiT PAN*, pp. 493-497.
2. M. K. Kazimierczuk, "Class E amplifier analysis method," *VIII Symp. Metody Matematyczne w Elektrotechnice, Pokrzywna k. Glucholazow, 21-26.05.1979, Inst. Elektrot., WSI w Opolu, PTETiS, Zesz. Nauk. WSI w Opolu nr. 63, Elektryka, z. 10, cz. III, Układy Elektryczne*, pp. 119-129, 1980.
3. M. K. Kazimierczuk, "Design method of high-frequency power oscillators," *IX Symp. Metody Matematyczne w Elektrotechnice, Pokrzywna k. Glucholazow, 26-31.05.1980, Inst. Elektrot., WSI w Opolu PTETiS, Zesz. Nauk. WSI w Opolu, no. 73, Elektryka, z. 16, cz.III, Układy Elektryczne*, pp. 83-96, 1981.
4. M. K. Kazimierczuk, "Method of analysis of Class E amplifier with series capacitor," *IX Symp. Metody Matematyczne w Elektrotechnice, Pokrzywna k. Glucholazow, 26-31.05. 1980, Inst. Elektrot., WSI w Opolu, PTETiS, Zesz. Nauk. WSI w Opolu, no. 73, Elektryka, z. 16, cz. III, Układy Elektryczne*, pp. 69-82, 1981.
5. M. K. Kazimierczuk, "Method of analysis of Class E amplifier with shunt inductor," *Prace X Symp. Metody Matematyczne w Elektrotechnice, Karpacz, 23-30.05.1981, PTETiS, Wyd. Elektryczny i Wyd. Elektroniki PW*, pp. 493-504.
6. M. K. Kazimierczuk, J. Krakowski, and R. Rozycki, "Identification of the inverse current amplification for bipolar transistors," *IV Kraj. Konf. Teoria Obwodow i Układy Elektroniczne, Drzonkow k. Zielonej Gory, 28-30.10.1981, Teksty Referatow, IE WSI w Zielonej Gorze, IPE PW, SUE KEiT PAN*, pp. 311-316.
7. M. K. Kazimierczuk and J. M. Modzelewski, "Measurements of switching power losses in high-frequency power transistor amplifiers," *Zesz. Nauk. III Symp. Kierunki Rozwoju Metrologii Elektrycznej, Wilga, 14-15.05.1981, IETiME PW, SE KE PAN*, pp. 66-71.

8. M. K. Kazimierczuk, "Class E amplifier with nonsinusoidal output voltage," V Kraj. Konf. Teoria Obwodow i Ukladow Elektronicznych, Sulejow-Podklasztorze, 24-26.11.1982, Teksty Referatow, IE PL, IPE, SUE KEiT PAN, PS IEEE, pp. 132-136.
9. M. K. Kazimierczuk, "Charge analysis of saturated transistor with time-dependent collector current," VI Kraj. Konf. Teoria Obwodow i Uklady Elektroniczne, Kozubnik k. Porabki, 19-22.10.1983, Teksty Referatow, IE PSL, IPE PW, SUE KEiT PAN, PS IEEE, pp. 342-346.
10. M. K. Kazimierczuk and W. A. Tabisz. "Computer-aided analysis of the Class C-E tuned power amplifier," VIII Kraj. Konf. Teoria Obwodow i Uklady Elektroniczne, pp. 251-255, 1985, Teksty Referatow.

In Russian:

1. M. K. Kazimierczuk and J. Ebert, "Improvement of efficiency of power amplifiers," Izv. VUZ SSSR, Radioelektronika, vol. 20, no. 11, pp. 103-106, 1977.

TECHNICAL REPORTS

1. M. K. Kazimierczuk, "A new type of electronic ballast for gas discharge lamps," Final Technical Report, Ohio Department of Development, Thomas Edison Program, June 30, 1990.
2. M. K. Kazimierczuk and N. Thirunarayan, "Characterization and application of power electronic devices," Final Technical Report of the Project for the U.S. Air Force, Southeastern Center for Electrical Engineering Education, January 1992.
3. M. K. Kazimierczuk and D. Q. Vuong, "High power density up/down power converter for the More Electric Aircraft", Final Technical Report of the Project for the U.S. Air Force, Southeastern Center for Electrical Engineering Education, February 1993.
4. M. K. Kazimierczuk, "Synthesis, analysis, and design of resonant dc/dc converters," Final Technical Report of the NSF Project, February 1994.
5. M. K. Kazimierczuk, "Female and minority undergraduate support program," Final Technical Report of the NSF Project, February 1994.
6. M. K. Kazimierczuk, "Research experience for undergraduate program, Final Technical Report of the NSF Project, February 1994.
7. M. K. Kazimierczuk and M. Vichare, "Characterization of silicon carbide power semiconductor devices for high-temperature operation," Final Technical Report for Universal Energy Systems, Inc., December 1996.
8. M. K. Kazimierczuk and V. R. Garuda, "Semiconductor devices for aircraft power system applications," Final Technical Report for Universal Energy Systems, Inc., May 1998.
9. M. K. Kazimierczuk and D. Hanna, "Parameterized and distributed power regulator," Final Report, August 2002.
10. M. K. Kazimierczuk, "Design of high-efficiency microwave power amplifiers with poly-harmonic operation," NSF, Final Report, December 2002.
11. M. K. Kazimierczuk and K. S. Gudmundsson, "Evaluating phase-only filter algorithm performance on ARO IR image sequences using the quality metric scene evaluator," US Army, Final Report, February 2004.
12. M. K. Kazimierczuk, "Energy Conversion Science and Security of Large-Scale Systems, DOE, Final Report, June 2007.
13. M. K. Kazimierczuk, "Power Line Urban Sentry (PLUS), Inductive Core and Recharging Research," Defense Research Associates, 2009.

RESEARCH CONTRIBUTION

The objectives of my professional life have been inquiry and advancement of knowledge. I always wanted to be a good educator and researcher. The indicators of the quality of my research are journal papers, conference papers, and monographs at a high international level. My articles are published in the best peer-reviewed international journals, international conference proceedings, which are indexed in the leading databases of science and engineering, such as *Science Citation Index* and scholar.google.com. My monographs are published by top internationally recognized publishers, such as Wiley and Prentice-Hall. The major contributions are as follows:

1. Major, lasting contribution to the invention and development of electronic ballasts for fluorescent lamps. A multi-billion dollar industry has been created. Electronics ballasts improve the quality of artificial light by *eliminating the flickering and producing healthy light*. They also improve the *power quality* by *reducing current harmonics* in utility power lines, *increasing power factor*, and lowering electromagnetic pollution and protecting environment. Electronic ballasts drive fluorescent lamps at high frequencies. Traditional incandescent bulbs convert only 5% of energy into artificial light and 90% of energy into heat. The efficiency of fluorescent lamps is over five times higher than that of incandescent lamps, thereby *saving a large amount of energy*. This invention was adopted quickly and rapidly diffused around the world. A new research discipline has been created. There are special issues in the top international archival journals and conference session on electronic ballasts Fluorescent lamps driven by electronic ballasts have become the core of the worldwide lighting market. European Union has decided to replace all low-efficiency incandescent bulbs by fluorescent tubes with electronic ballasts. Electronic ballast are significant component of "green technology." The invention of electronic ballasts has a worldwide impact by improving of quality of life and saving energy. The U.S. Congress has set 2012 as the year in which the U.S. will phase out incandescent bulbs. Australia has chosen 2010 as its deadline to eliminate incandescent bulbs. European Union will eliminate all incandescent bulbs by 2012; 100 W bulbs by 2009, 75 W bulbs by 2010, 60 W by 2011, and 40 W and 25 W by 2011. The energy savings by replacing incandescent bulbs with fluorescent lamps is estimated to be \$70 billion per year. It also reduces the emission of CO₂ by 15 mln tons a year. This has been an extraordinary, lasting contribution with a global impact for the greater good of humanity and the world. On September 20, 2010, General Electric made the last incandescent bulb.
2. Invention of the Class E RF zero-voltage switching power oscillator.
3. Invention of the Zeta (dual SEPIC) dc-dc converter widely used in industry.
4. Invention of feed-forward control of boost PWM dc-dc power converter (US Patent).
5. Invention of the Class E RF zero-current switching power amplifier.
6. Invention of the RF Class F power amplifier with quarter-wave transmission line.
7. Invention of high-frequency Class E rectifiers.
8. Derivation of small-signal circuit models of switching-mode PWM dc-dc power converters. These models are useful is studying dynamic performance of dc-dc power converters and designing control circuits.
9. Derivation of a model for current-mode controlled PWM dc-dc converters. This model is useful in designing two-loop control circuits for PWM dc-dc power converters.
10. Contributions to analysis and design of PWM dc-dc converters (including a monograph and graduate textbook by Wiley, 2008)
11. Development of high-efficiency high-frequency power amplifiers and RF transmitters, including Class E and Class D switching-mode power amplifiers (including a monograph and graduate textbook by Wiley, 2008). Class E amplifier is the most efficient transmitter used in wireless communications.
12. Development of high-efficiency resonant dc-dc converters (including a monograph and graduate textbook by Wiley, 1995).
13. Modeling and control of PWM dc-dc converters.
14. Analysis and design of high-frequency magnetic components.
15. Development of microwave microscope, used in testing superconductors and other materials, including biological tissues.
16. External research funding from the most competitive federal agencies, like NSF, National Academy of Science, and Department of Energy
17. Science Citation Index over 1000.

NEW COURSES DEVELOPED

EE 741	Power Semiconductor Devices
EE 742	Power Electronics
EE 743	Power Electronics III
EE 880	RF Power Amplifiers
EE 890	Independent Studies
EE 898	Ph.D. Dissertation
EGR891	Ph.D. Seminar
EE 331	Electronic Devices
EE 332	Electronic Devices Laboratory
EE 431	Electronic Circuits

EE 432	Electronic Circuits Laboratory
EE 434	Electronics Laboratory
EE 444	Linear Integrated Circuits (course and laboratory)
EE 449	Digital Electronics Laboratory
EE 499	Independent Studies

The objectives of his teaching activities have been to develop, advance, disseminate, and exploit knowledge. He as developed, has been maintaining, and updating a sequence of hardware laboratories in the area of electronics for undergraduate students of electrical engineering and computer engineering departments: EE332, EE432, EE434, EE444, and EE449. He has been responsible for all electronics courses and laboratories in the Department of Electrical Engineering for over 20 years. Has written an undergraduate text book: *Electronic Devices: A Design Approach*, Prentice Hall, 2004 and a *Laboratory Manual to Accompany Electronic Devices: A Design Approach*, Prentice Hall, 2004.

He has developed a sequence of three graduate courses in the area of power electronics for graduate M.S and Ph.D. students: EE741, EE 742, and EE743.

1. EE741 covers fundamental characteristics and simulation models of power devices, such as silicon (Si) and silicon-carbide (SiC) power MOSFETs, power junction and Schottky diodes, and IGBTs. In addition, power stages of PWM switching dc/dc converters are analyzed. A computer laboratory has been also developed.
2. EE742 Power Electronics derives small-signal linear time-invariant models of power stages of PWM converters for continuous and discontinuous conduction modes. Using these models, transfer functions and step responses of power stages of PWM converters are derived. Voltage-mode control, current-mode control, and feed-forward strategies are discussed in detail. A computer laboratory has been also developed.
3. EE743 Power Electronics III covers RF resonant power amplifiers, high-frequency power dc/ac inverters, high-frequency rectifiers, and high-frequency magnetic devices. The theory is illustrated by design projects. For this course, he has written a graduate text book: *Resonant Power Converters*, John Wiley & Sons, 1995.

All the three courses are non-required and attract 60 to 105 graduate students every quarter.

His teaching and research brings a healthy balance of scientific progress and spiritual depth.

LABORATORY DEVELOPMENT AND SUPERVISION

1. Developed and supervises student hardware laboratories for undergraduate courses EE332, EE432, EE444, and EE449.
2. Has written and published by Prentice-Hall a laboratory manual for these laboratories.
3. Developed and supervises software and hardware student laboratories for graduate courses EE741, EE742, and EE743.

COURSE DIRECTOR

EE331, EE332, EE431, EE432, EE444, EE449, EE741, EE742, EE743, EE880.

BOOKS

1. Two undergraduate textbooks with solutions manuals in electronics area published by Prentice-Hall.
2. Three graduate books with solutions manuals in power electronics area published by John Wiley & Sons

GTAs

Four my Graduate Teaching Assistants won the College Excellence in Teaching Awards: Brad Bryant, Simon J. Tritschler, Weston R. Earick, and Dakshina Murthy. Thomas R. Salvatierra was a finalist in 2008.

INVITED SEMINARS

1. "Resonant dc/dc power converters," Department of Electrical Engineering, University of Toledo, Toledo, OH, November 11, 1991.
2. "Modeling of switching-mode power converters," Guest speaker, Annual Meeting of Italian Researchers on Circuits and Systems, Cagliari, Italy, June 28, 1996.
3. "Relative stability of switching-mode power converters with current-mode control," Silesian University of Technology, Poland, December 2, 2009.
4. "Engineering Education in the United States," Silesian University of Technology, Poland, December 3, 2009.

M.S. GRADUATE STUDENTS SUPERVISED AT WRIGHT STATE UNIVERSITY

1. Xung T. Bui	M.S.E.E.	1988
2. Jacek Jozwik	M.S.E.E.	1990
3. Shan Wang	M.S.E.E.	1991
4. Abdulkarim A. Abdulkarim	M.S.E.E.	1992
5. Nandakumar Thirunarayan	M.S.E.E.	1992
6. Dung Q. Vuong	M.S.E.E.	1992
7. Dariusz Czarkowski	M.S.E.E.	1993
8. Venkatramani Swaminathan	M.S.E.E.	1993
9. Nehru Sathappan	M.S.E.E.	1994
10. Manikantan K. Jutty	M.S.E.E.	1994
11. Peter T. Lamm	M.S.E.E.	1994
12. Robert C. Cravens II	M.S.E.E.	1994
13. Chuyun Wu	M.S.E.E.	1994
14. Richard E. Strawser	M.S.E.E.	1994
15. Kevin L. Thayer	M.S.E.E.	1994
16. Robert S. Geise	M.S.E.E.	1994
17. Sonny Nguyen	M.S.E.E.	1994
18. Ali Izadi	M.S.E.E.	1995
19. Makarand Vichare	M.S.E.E.	1996
20. ASM Nazirul Shaheen	M.S.E.E.	1997
21. Paul J. Baker	M.S.E.E.	1997
22. Carlos M. Cordoza	M.S.E.E.	1997
23. LaVern Starman	M.S.E.E.	1997
24. David C. Liptak	M.S.E.E.	1998
25. Venugopal Rao Garuda	M.S.E.E.	1998
26. Donald J. Kessler	M.S.E.E.	1998
27. Anders J. Edstrom	M.S.E.E.	1998
28. Masoud Pourali	M.S.E.E.	1999
29. David Hanna	M.S.E.E.	2000
30. Brad S. Bryant	M.S.E.E.	2000
31. Ronald L. McDonald	M.S.E.E.	2000
32. Skip Shattuck	M.S.E.E.	2000
33. Kenroy Howard	M.S.E.E.	2000
34. Jeffrey Allen Ross	M.S.E.E.	2001
35. Anders P. Walker	M.S.E.E.	2002
36. Erich J. Kring	M.S.E.E.	2002
37. Mahbuba Rahman	M.S.E.E.	2003
38. Simon Joe Tritschler	M.S.E.E.	2003
39. Benjamin J. Gerten	M.S.E.E.	2003
40. Bharath Tanneru	M.S.E.E.	2004
41. Chris A. Evans	M.S.E.E.	2004
42. Donald E. Peters	M.S.E.E.	2004
43. Subash P. Ramakrishnan	M.S.E.E.	2005
44. Melaka P. Senadeera	M.S.E.E.	2005
45. Kim Ying Wong	M.S.E.E.	2005
46. Emad M. Al-Tabakha	M.S.E.E.	2005
47. Nisha Das	M.S.E.E.	2005

48. Dakshina Murthy	M.S.E.E.	2006
49. Weston R. Earick	M.S.E.E.	2006
50. Derrick N. Langley	M.S.E.E.	2007
52. Julie J. Lee	M.S.E.E.	2007
53. Veda Pakakash N. Galigekere	M.S.E.E.	2007
54. Hamdi Abdelbagi	M.S.E.E.	2007
55. Thomas Lange	M.S.E.E.	2008
56. Mandar D. Kavimanden	M.S.E.E.	2008
57. Manish Dalal	M.S.E.E.	2009
58. Gary Richard Doss	M.S.E.E.	2009
59. Daniel J. Whitman	M.S.E.E.	2010
60. Jeremy D. Gassmann	M.S.E.E.	2010
61. Thomas R. Salvatierra	M.S.E.E.	2010
62. Dhivya Ammanambakkan Nagarajan,	M.S.E.E.	2011
63. Ramachandran Mahendrabhai Kotecha,	M.S.E.E.	2011
64. Curt Zackiewicz	M.S.E.E.	2011
65. Ramayya J. George	M.S.E.E.	2011
66. Agasthya Ayachit	M.S.E.E.	2011
67. Venkata Sai Aditya Kumar Choragudi	M.S.E.E.	2011

Total 68 MS Students

Also, advised 31 M.S. students at the Department of Electronics, Warsaw University of Technology, Warsaw, Poland

PH.D. STUDENTS

1. Karl S. Gudmundsson	2004, Assoc. Prof., University of Iceland, Dept. of Electrical and Computer Eng.
2. Brad S. Bryant	2004, Design engineer, Dayton-Phoenix Co., Dayton, OH.
3. Richard A. Kleismit	2005, Assistant Research Prof., Physics Department, Wright State University
4. Donald J. Kessler	2005, General Dynamics. Dayton, OH
5. Greg Cazzell	2009, Wright-Patterson Research Laboratory, US Air Force Base.
6. Simon Joseph Tritschler	2010, Tiburon Co, Dayton, OH.
7. Dakshina Murthy-Bellur	Assistant Professor, Penn State Erie, School of Engineering, Department of Electrical, Computer, and Software Engineering, REDC 166, 5101 Jordan Road, Erie, PA 16563-6153 (814) 898-7169, dsm19@psu.edu
8. Nisha Kondrath	Assistant Professor, University of Minnesota-Duluth, Swenson College of Engineering, Department of Electrical and Computer Engineering, Duluth, MN.
9. Robert Carl Fitch, Jr.	Air Force Research Laboratories, WPAFB, Dayton, OH.
10. Veda Prakash N. Galigekere,	Passed Qualifying Exam (3/19/2008), Candidacy Exam (12/12/2008), Research Proposal 4/9/2010
11. Todd Grimes	Passed Qualifying Exam, Candidacy Exam (8/2/2006),
12. Thomas A. Edelmann	Passed Qualifying Exam (4/13/2007), Candidacy Exam (2/22/2008)
13. Julie J. Lee	Passed Qualifying Exam (6/9/2008), Candidacy Exam (12/15/2008), Research Proposal (8/12/2010)
14. Weston R. Earick	Passed Qualifying Exam, Candidacy Exam, Research Proposal, 8/17/10
16. Thomas R. Salvatierra,	Passed Qualifying Exam, Candidacy Exam (01/12/2009)
17. Mohamed A. Elemary	Passed Qualifying Exam (6/9/2008)Candidacy Exam, Research Pop. 7/22/10
18. Jeff Baugher	Passed Qualifying Exam (6/12/2009), Passed Candidacy Exam 4/6/2010.
19. Rafal Wojda	Passed Qualifying Exam (3/18/2010), Research Proposal 4/4/2011.
20. Henry K. Griffith	Passed Qualifying Exam, Candidacy Exam, Passed Research Proposal
21. Nima Emani	Passed Qualifying Exam (4/11/2007)
22. Daniel J. Whitman	Started (9/07/2010)

STUDENTS TEACHING AWARDS

1. Brad S. Bryant	2002
2. Simon Joseph Tritschler	2005

3. Weston R. Earick 2003
4. Dakshina Murthy Bellur 2007 – 2008
5. Simon Joseph Tritschler 2010

STUDENTS RESEARCH AWARDS

1. Brad S. Bryant 2003 - 2004
2. Dakshina Murthy Bellur 2009 - 2010

UNDERGRADUATE STUDENT SCHOLARSHIPS

Attracted over \$460,000 (about \$22,000 per year) for student scholarships from the Electrical Manufacturing and Coil Winding Association (EMCWA) for the last 20 years.

GRADUATE STUDENT SUPPORT

J. Jozwik (10 quarters), N. Thirunarayan (9 quarters), D. Czarkowski (10 quarters), D. Q. Vuong (8 quarters), M. Hoffman (4 quarters), M. Vichare (9 quarters), V. Garuda (4 quarters), D. Hanna (2 quarters), and Nisha Das (1 quarter)

Total Support (57 quarters)

POST-DOCTORS, SABBATICALS, AND RESEARCH ASSOCIATES

1. Wojciech Szaraniec
2. Alberto Reatti (sabbatical)
3. Massimo Bartoli
4. Antonio Massarini (sabbatical)
5. Andrea Armani
6. Giuseppe Sancineto
7. Tadashi Suetsugu (sabbatical)
8. Kamon Jirasereeamornkul
9. Hiroo Sekiya (sabbatical), Feb. 1, 2008-Feb. 1, 2010.

PATENTS

1. J. A. Weimer, M. K. Kazimierczuk, A. Massarini, and R. C. Cravens II, "Feed-forward control of aircraft bus dc boost converter," U.S. Patent 5,982,156, November 9, 1999.
2. J. A. Weimer, B. T. Nguyen, M. K. Kazimierczuk, and B. A. Jordan, "Supercapacitor charging," U. S. Patent 5,914,542, January 22, 1999.
3. J. A. Weimer, M. K. Kazimierczuk, and R. C. Cravens, "Supercapacitor battery clone," U.S. Patent 5,848,652, December 15, 1998.
4. M. K. Kazimierczuk, "High-frequency power amplifier," Polish Patent, no. 113882, 1983.
5. M. K. Kazimierczuk, "High-frequency power amplifier," Polish Patent, no. 117980, 1984.
6. M. K. Kazimierczuk, "Method of compensation for dispersion of parameters for paralleled transistors in switching-mode amplifiers", Polish Patent, no. P-223321, 1983.
7. M. K. Kazimierczuk and J. M. Modzelewski, "Class D tuned power amplifier," Polish Patent, no. P-218668, 1983.
8. M. K. Kazimierczuk and J. Ebert, "Tuned power oscillator," Polish Patent, no. P-213078, 1984.

EQUIPMENT DESIGNED

High-frequency high-voltage tuned power amplifier for nuclear accelerator at $f = 200$ MHz and $V_o = 200$ kV.
Meters for the power gain and the output power of high-frequency power transistors at 100, 175, and 400 MHz.
Radiotelephone for $f = 175$ MHz.
Meters of the distance of the Earth satellites.

Frequency multipliers for atomic frequency standard.

Meters of the cross-modulation distortion of PIN diodes.

Class E high-efficiency dc/dc converter at $f = 2$ MHz, $V_o = 5$ V, $P_o = 50$ W, and total efficiency over 75%.

Electronic ballast at $f = 50$ kHz, $P_o = 80$ W, and PF > 0.99.

GRANTS AND CONTRACTS

1. "High-efficiency switching-mode tuned power amplifiers," PI, Wright State University, Seed Grant, No. 216-028, 1986, \$1500.
2. "Switched-mode resonant dc/dc converters," PI, Wright State University, Research Incentive Award, Grant No. 241-262, 1987/88, \$1200.
3. "Resonant dc/dc power converters," PI, Ohio State Research Challenge Grant, No. 660-763, 3/7/88-6/30/89, \$33,000.
4. "New type of ballast for gas discharge lamps," PI, Ohio Department of Development, Ohio's Thomas Edison Program, Contract No. 661-399, 3/1/89-6/30/90, \$53,500.
5. "High-efficiency switching power supply," PI, ASTEC, Inc., Advanced Technology Group, Milpitas, CA, Contract No. 550-404, 5/1/90 - 4/30/91, \$15,000.
6. "Synthesis, analysis, and design of resonant dc/dc converters," PI, NSF, Grant No. ECS-8922695, WSU No. 661708, 8/1/90 - 6/30/93, \$98,719.
7. "Female and Minority Undergraduate Support Program," PI, NSF, Grant No. ECS-9246861, WSU No. 662060, 3/1/92 6/30/93, \$15,000.
8. "Characterization and application of power electronic devices," PI, Southeastern Center for Electrical Engineering Education (SCEEE), Contract No. F33615-90-C-2088, WSU No. 661816, 2/19/91 - 1/31/92, \$43,745.
9. "High power density up/down power converter for the More Electric Aircraft," PI, Southeastern Center for Electrical Engineering Education (SCEEE), Contract No. F33615-90-C-2088, WSU No. 662077, 4/13/92 - 2/7/93, \$43,275.
10. "Research Experience for Undergraduates Program", PI, NSF, Grant ECS-9345338, WSU No. 662341, 1/5/93 - 6/30/93, \$15,000.
11. "Heat sensitive color system," Undergraduate Design Clinic Project, Standard Register Co., 09/15/94 - 06/10/95, \$10,000.
12. "Development and packaging of SiC power semiconductor devices for aircraft applications," PI, Universal Energy Systems, Inc., Contract No. F33615-C-2284, WSU No. 662864, 3/1/95 - 9/30/96, \$35,413.
13. "Semiconductor devices for aircraft power system applications," PI, Universal Energy Systems, Inc., Contract No. F33615-92-C2284, WSU No. 663374, 1/1/96 - 9/30/97, \$28,200.
14. "Parameterized and distributed power regulator," PI, University of Cincinnati, Contract No. F33615-96-2-1945, WSU No. 663-786, 3/1/98 - 9/30/98, \$22,000.
15. "Design of high-efficiency microwave power amplifiers with poly-harmonic operation," PI, NSF and National Academy of Sciences, Grant No. INT-0002341, WSU No. 664-661, 12/15/2000 - 12/31/2002, \$15,000.
16. "Developing effective strategies and performance matrices for automatic target recognition," Co-PI, Army Research Office, University of South Alabama, WSU No. 665015, 6/4/2003 - 12/31/2003, \$15,690.
17. "EMCWA Technical Committee Grant," Electrical Manufacturing and Coil Winding Association, Inc., 12/17/04, \$450.
18. "State Technologies Advancement Collaborative Program (STAC)," PI, US Department of Energy, Contract No. 541-0319-3, WSU No. 666349, 01/01/05-12/31/07, \$315,500 (\$98,000).
19. "Electromagnetic Far Field Distribution of Three-Phase Power Transmission Lines," PI, Defense Research Associates, Inc., 9/1/2007-8/32/2008, \$50,000.
20. NEWSTARs Program, US Air Force, Co-PI, Contract FA8650-D-1848, WSU Account nr. 666595, \$80,000, 1/2/2008-31/12/2011.
21. "Student Scholarship Program," EMCWA, \$440,000.

22. M. Emmert, F. Garber, and M. K. Kazimierczuk, Co-PI, NEWSTARs Program, US Air Force, Co-PI, Contract FA8650-D-1848, WSU Account nr. 666595, \$12789, 1/2/2010-31/12/2013.
23. "Near-field nano-evanescent microwave microscope for interdisciplinary research," Co-PI, NSF Proposal No. 6539578, \$1,518,942, Nov. 28, 2007 (05-610).
24. "Electric dual mode Vehicle development project," Ohio Dept. of Development Technology, \$1,467,124.
25. "Power Line Urban Sentry (PLUS), Inductive Core and Recharging Research," Co-PI, 3/21/2009-10/31/2009, WSU Nr. 667596, \$73,091, Defense Research Associates.
26. "Electric dual mode vehicle development project," Co-PI, WSU Proposal Nr. 09-307-10, Mono-mobile Corp., 40/1/2009-3/31/2010.
27. "Research of multi-function software defined architecture-based cognitive electronic warfare technology," US Air Force, Co-PI, WSU Account 668266, \$25,514, 11/23/2010-11/22/2011.

The total sum of external funding \$1,236,242 + 440,000 and internal funding \$35,700; TOTAL External Funding: \$1,262,456 + \$440,000 = \$1,702,456.

REVIEWER OF TECHNICAL JOURNALS, N.S.F. and PUBLISHERS

IEEE Transactions on Circuits and Systems (15 papers a year)
 IEEE Transactions on Power Electronics (10 papers a year)
 IEEE Transactions on Aerospace and Electronic Systems (12 papers a year)
 IEEE Transactions on Industrial Electronics (8 papers a year)
 IEEE Transactions on Electron Devices (3 papers a year)
 IEEE Transactions on Control Systems Technology (2 papers a year)
 IEEE Transactions on Magnetics (2 papers a year)
 IEEE Transactions on Industry Applications (2 papers a year)
 IEEE Transactions on Education (3 papers a year)
 IEEE Transactions on Dielectric and Electrical Insulation (2 paper a year)
 IEEE Power Electronics Specialists Conference (15 papers a year)
 IEEE International Symposium on Circuits and Systems (6 papers a year)
 IEE Proceedings, Pt. B, Electric Power Applications (10 papers a year)
 IEE Proceedings, Pt. G, Circuits, Devices and Systems (4 papers a year)
 IEE Proceedings on Control Theory and Applications (1 paper a year)
 IEEE International Conference on Decision and Control (1 paper a year)
 Journal of Power Electronics (3 papers a year)
 Automatica (2 paper a year)
 Electronics Letters (2 papers a year)
 Solid-State Electronics (2 papers a year)
 International Journal of Circuits Theory and Application (20 paper a year)
 Journal of Circuits, Systems, and Computers (5 papers a year)
 Analog Integrated Circuits and Signal Processing (1 paper a year)
 COMPEL: Int. Journal for Computation and Mathematics in Electronics and Electrical Eng. (5 papers a year)
 Archives of Electrical Engineering (1 year)
 European Conference on Circuit Theory and Design (2 papers a year)
 Reviewer for NSF (4 proposals a year)
 National Academy of Science, USA (1 proposal a year)
 John Wiley & Sons Publishers (4 books)
 Prentice-Hall (3 books)
 Elsevier Scientific Publishing Company (1 book)
 West Publishing Company (2 books)
 Research Grants Council (REG) of Hong Kong (3 to 5 research proposals per year)

SERVICE AND ACADEMIC OUTREACH

UNIVERSITY COMMITTEES

Faculty Senate	Member	1997-1998
Senate Executive Committee	Member	1997-1998
Promotion and Tenure Committee	Member	1995-1997, 2001-2003, 2006-2007, 2009-2010
Student Affairs Committee	Member	1993-1995, 1999-2003, 2005-2006
Budget Review Committee	Member	1998-1999, 2001-2002
Graduate Council Committee	Member	1992-1995, 1996-1998, 1999-2003, 2009-2011
Graduate Policy Committee	Member	2000-2001
Agenda Committee	Member	1994-1997
Academic Dishonesty Hearing Panel	Member	1994-1998
Due Process Committee	Member	1995-1996
Strategic Planning Council Committee	Member	1995-1997
Academic Programs Subcommittee	Member	1995-1997
Tenure Removal Committee	Member	1998-2001
Library Committee	Member	1999-2001
Faculty Diversity Committee	Member	1999-2001
Petitions Committee	Member	2003-2005
Parking Committee	Member	2005-2010
Civil Engagement Task Force	Member	2004-2006
Faculty Budget Priority Committee	Member	2005-2006
Buildings and Grounds Committee	Member	2005-2006
Dining Services Committee	Member	2006-2007
Marshall at Graduation Ceremony		1997, 1998, 2006
Undergraduate Academic Program Review Committee	Member	2007-2011
Teaching and Learning Advisory Council	Member	2008-2010
Service-Learning Subcommittee of UCAP	Member	2009-2011
Search Committee, Dean of College of Eng. & Comp. Sci.	Member	2010
AAUP-WSU Bargaining Council Committee	Member	2010-11

COLLEGE COMMITTEES

Steering Committee	Member	2000-2006
Steering Committee	Chair	2001-2002
Faculty Development Committee	Chair	1995-1999, 2002-2004, 2007-2010
Teaching Committee	Chair	2003-2004
Curriculum Committee	Member and Scribe	1988-1989, 2004-2006
Due Process Committee	Chair and Scribe	1992-1993
Ad Hoc Committee to Review Bylaws	Member and Scribe	1992-1993
Due Process Committee	Member	1991-1993
Teaching Award Committee	Member	1993-1997, 2001-2004, 2008-2012
Three-Year Review Committee of EE Department Chair	Member	1995-1996
Ph.D. Affairs Committee	Member	2003-2006, 2008-2010
Ph.D. Planning Committee	Member	1996-2002
Ph.D. Admissions Committee	Member	1998-2003
Ph.D. Program Coordinating Committee	Member	1996-2006
Ph.D. Steering Committee	Member	1998-2003
EE Chair Search Committee	Member	1998-2000
Math Ad Hoc Committee	Member	2000-2002
Ph.D. Review Committee	Member	2000-2001
Petition Committee	Chair	2003-2005
Graduate Council Representative	Alternate	2003-2004, 2006-2007, 2009-2010
University Promotion and Tenure Committee	Representative	2006-2007
Senior Lecture Promotion Committee	Member	2008-2009
CSCE Ad-hoc Strategic Planning Advisory	Member	2009=2010

DEPARTMENT COMMITTEES

EE Faculty Development Committee	Member	1990-2006, 2009-12
EE Faculty Development Committee	Chair	1996-2000, 2003-2004, 2007-2009 2010-2011
Engineering Physics Program Committee	Co-Director	1993-2008
Engineering Physics Program Committee	Member	2008-2010
Curriculum Committee	Member	1988-2009
Curriculum Committee	Chair	2004-2005
Graduate Program Committee	Member	1986-1988, 1994-2008
EE Undergraduate Studies Committee	Member	2004-2009
EP Undergraduate Studies Committee	Co-Director	2004-2006
GTA Committee	Member	1996-2001
Laboratory Resources Committee	Member	1986-2010
Laboratory Resources Committee	Chair	2003-2006
Electronics/VLSI Subcommittee	Chair	1988-2006
Electronics/VLSI Subcommittee	Member	2003-2008
EE Core Subcommittee	Member	2003-2006
Bylaws Committee	Member	2000-2002
Bylaws Committee	Chair	2002-2003, 2005-2007
Telecommunications Faculty Search Committee	Member	1999-2002
VLSI Faculty Search Committee	Member	1999-2002
Ad Hoc Faculty Search Committee	Member	2003-2006

PROFESSIONAL SERVICE

ASSOCIATE EDITOR

IEEE Transactions on Circuits and Systems, I		1993-1995, 1997-2001, 2003-2005
IEEE Transactions on Industrial Electronics		2005-
Journal of Circuits, Systems, and Computers		1992-2000
IEEE Transaction on Circuits and Systems, I, Special Issue on Switching Circuits and Systems		August 2003
IEEE Transaction on Power Electronics, Special Issue on Lighting Applications		May 2007
International Journal of Theory and Applications		2008-

IEEE TECHNICAL COMMITTEE CHAIR

Technical Committee for Power Systems Electronics Circuits for the IEEE Circuits and Systems Society		2001-2002, 2004-2005
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I

IEEE CONFERENCE TRACK CHAIR

IEEE International Symposium on Circuits and Systems, Power Systems and Power Electronics Circuits		2001, 2002, 2004, 2005, 2006
IEEE Power Electronics Specialists Conference, Topic Chair, Resonant Power Converters		2006

DISTINGUISHED LECTURER

IEEE Distinguished Lecturer for the Circuits and Systems Society		2004-2006
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OHIO AEROSPACE INSTITUTE

Member of the Steering Committee of the Focus Group, "Aerospace Power and Propulsion"

CONFERENCE TECHNICAL PROGRAM COMMITTEE

IEEE International Symposium on Circuits & Systems		1996-2006
IEEE Power Electronics Specialists Conference		1994-2004
IEEE International Power Electronics Conference		1999-2000
IEEE International Symposium on Industrial Electronics		1996, 2007
International Conference of Electronics, Circuits, and Systems		2004-2006
IEEE International Conference on Power Electronics and Drive Systems,		

International Steering Committee 2007

SESSION CHAIR

1st IEEE Conference on Control Applications, Dayton, OH 1992
Session TP-4 Machines, Co-chair

IEEE Power Electronics Specialists Conference 1993
Session 14 Topology IV: Power Factor Correction, Chair
Session 18 Topology V: Converter Topologies, Chair

IEEE Midwest Symposium on Circuits and Systems 1996
Session: Antennas, Radar and RF Microwave Systems, Chair

IEEE International Symposium on Circuits and Systems, Atlanta, GA 1996
Organized and Chaired a Panel Session on Power Electronics

IEEE Power Electronics Specialists Conference 1996
Session: Passive Components 2, Chair

IEEE International Symposium on Circuits & Systems, Geneva, Switzerland 2000
Session: Industrial Applications & Sensors I

Power Electronics Track for IEEE Intl Symposium on Circuits & Systems 2001
Associate Chair

IEEE International Symposium on Circuits and Systems, Sidney, Australia 2001
Organized and chaired two Special Sessions in Power Electronics

Midwest Symposium on Circuits and Systems 2001
Organized and chaired two Special Sessions in Power Electronics

IEEE International Symposium on Circuits & Systems, Phoenix, AZ 2002
Session Chair: Simulation of Power Electronic Circuits

IEEE International Symposium on Circuits and Systems, Bangkok, Thailand 2003
Session Chair: Power Converters

IEEE International Symposium on Circuits and Systems, Vancouver, BC, Canada 2004
Chair for Power Electronics Track and Power Systems Track
Session Chair: Power Converters

IEEE International Symposium on Circuits and Systems, Island of Kos, Greece 2006
Session Chair: Integrated Power Converters
Session Chair: Power Electronic Circuits
Session Chair: Power Integration
Session Chair: Control of Power Converters
Session Chair: Power Circuits

IEEE International Symposium on Circuits and Systems, New Orleans 2007
Session Chair: Power Integrated Circuits

IEEE Midwest Symposium on Circuits and Systems 2007
Session Chair: Power Electronic Circuits

TRACK CHAIR

IEEE International Symposium on Circuits & Systems, Phoenix, AZ 2002
Co-chair of Power Electronics Track
Session: Simulation of Power Electronic Circuits

IEEE International Symposium on Circuits and Systems, Bangkok, Thailand 2003
Chair for Power Electronics Track and Power Systems Track
Session: Power Converters

IEEE International Symposium on Circuits and Systems, Vancouver, BC, Canada 2004
Chair for Power Electronics Track and Power Systems Track
Session: Power Converters

IEEE International Symposium on Circuits and Systems, Kobe, Japan 2005
Co-Chair for Power Electronics Track and Power Systems Track
Session: Power Converter Circuits

IEEE International Symposium on Circuits and Systems, Island of Kos, Greece 2006
Chair for Power Electronics Track and Power Systems Track
Session: Integrated Power Converters

IEEE Power Electronics Specialists Conference, Jeju, South Korea, 2006
Track Chair for Resonant Converters

IEEE International Symposium on Circuits and Systems, New Orleans Chair for Power Electronics Track and Power Systems Track Session: DC-DC Power Converters	2007
Session Chair	2008
Electrical Manufacturing Association Conference, Nashville, TN,	2009
IEEE International Symposium on Circuits and Systems, Paris, France Review Committee Member (RCM)	2010
Session Chair: Integrated & Wireless Power Circuits	
Session Chair: Power Electronics I	
Session Chair: Switched Capacitor Converters & Power Amplifiers	
American Society of Engineering Education Session Chair	2010
Electrical Manufacturing Association Conference, Dallas, TX Program-Co-chair	
Session Chair: Power Electronics	
IEEE International Symposium on Circuits and Systems, Rio de Janeiro, Brazil Review Committee Member (RCM)	2011
Session Chair: Power Electronics Circuits I	
Session Chair: Power Converters II	

SPECIAL ISSUES

Organized two Special Issues on Automotive Electronics in the Journal of Circuits, Systems, and Computers Part 1, No. 4, 1994, Part 2, No. 1, 1995.

Organized two Special Issues on Power Electronics in the Journal of Circuits, Systems, and Computers Part 1, No. 3, 1995, Part 2, No. 4, 1995.

Gust Editor for Special Issues on Switching Circuits and Systems in the IEEE Transactions on Circuits and Systems-I, No. 8, August 2003.

Guest Editor for Special Issues on Electronic Ballasts in the IEEE Transactions on Power Electronics, No. 5, May 2007.

OTHER IEEE SERVICE

IEEE Power Electronics Society Superconductivity Committee, Representative 1992-1999

Electrical Manufacturing and Coil Winding	2008-present
Member of the Board of Directors	

PH.D. COMMITTEES IN OTHER UNIVERSITIES

Randall Shaffer, University of Dayton, 1999
 Ian Douglas de Vries, University of Cape Town, South Africa, 1999
 Samuel Sau-Man Chan, City University of Hong Kong, 2005
 Leung Ka Sing, City University of Hong Kong, 2005
 Chin Yat Chung, City University of Hong Kong, 2006
 Carl Ngai-Man Ho, City University of Hong Kong, 2006
 Siu Wai Leung, City University of Hong Kong, 2007
 Song Tingting, City University of Hong Kong, 2007
 Szymon Pasko, Silesian University of Technology, Poland, 2010

