MARIAN K. KAZIMIERCZUK

Professor of Electrical Engineering
Wright State University
Dayton, OH 45435

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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, High-Frequency 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/Scavenging, Renewable Energy Sources, CAD, and Engineering Education.

EDUCATION

1962-1966 High School, Liceum Ogolnoksztalcace im. J. I. Kraszewskiego, Drohiczyn, Poland (ranked first in class, summa cum lade).
1966-1971 Department of Electronics, Warsaw University of Technology, Warsaw, Poland.
1972-1973 Post Graduate Study of Higher Engineering Education, Technical University of Warsaw, Warsaw, Poland.
1972-1977 Ph.D. Graduate Studies, Department of Electronics, Warsaw University of Technology, Warsaw, Poland.
1977-1984 D.Sc. (Habilitation) Graduate Studies, Department of Electronics, Warsaw University of Technology, Warsaw, Poland.

DEGREES

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

1978 **Ph.D.**
Dissertation: "High-efficiency tuned power transistor amplifier"
Supervisor: 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 Design Engineer Design Automation Inc, Lexington, MA 02420
1984-1985 Visiting Professor, Department of Electrical and Computer Engineering, Virginia Polytechnic Institute and State University (Virginia Tech), 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 (Full) 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 4990	Design Industrial Clinics
	EE 7410	Power Semiconductor Devices
	EE 7420	Power Electronics II
	EE 7430	Power Electronics III
	EE 7440	RF Power Amplifiers
	EE 8900	Independent Studies
	EE 8990	Ph. D. Dissertation
	EGR 8910	Ph.D. Seminar

STUDENT SUPERVISION/ADVISING

22 Ph.D. students
100 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 Gold Life Fellow	2020-present
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
1979 President of the Technical University of Warsaw
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 Secretary of Division IV of Technical Sciences, 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
1998 Award of the Ohio House of Representatives
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 Wright State University. ``It is intended to honor those who serve as the most outstanding of role models for all faculties.")
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 (Nov.17). National Professor of Technical Sciences of Poland conferred by the President of the Republic 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 Achievement Award
2011 Ohio Magazine Excellence in Education Honoree May 2011.
2014-2018 Frederick A. White Distinguished Professor of Professional Service, Wright State University
2015 Distinguished Fellow of the Collegium of Eminent Scientists of Polish Origin and Ancestry, The Kosciuszko Foundation, USA
2016 Nomination for the Global Advocate/Citizen Award in WSIF
2018 Semi-finalist for the Excellence in Teaching Award, College of Engineering and Computer Science, Wright State University
2019 Nomination for the University Professor Award.
2020-2025 University Professor.

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, 2011, pp. 1-595, ISBN 978-0-470-90538-8.

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, Chichester, UK, 2008, pp. 1-782, ISBN-10: 0-470-77301-4, ISBN-13: 978-0-470-77301-7; 2nd Ed., 2016, pp. 1-930. (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, Chichester, UK, 2008, ISBN-978-0-470-74101-6.

8. M. K. Kazimierczuk, *RF Power Amplifiers*, John Wiley & Sons, Chichester, UK, 2008, pp. 1-405, ISBN 978-0-470-77946-0; 2-nd Ed. 2015, pp. 1-658. (The monograph/textbook is intended for graduate students, researchers, and practicing engineers). Best Seller. In Chinese, IEEE Press/John Wiley & Sons, Beijing, China, 2015.

9. M. K. Kazimierczuk, *Solutions Manual for RF Power Amplifiers*, John Wiley & Sons, Chichester, UK, 2008, ISBN 978-0-4-70-72134-6.

10. M. K. Kazimierczuk, *High-Frequency Magnetic Components*, John Wiley & Sons, Chichester, UK, 2009, pp.1-486, ISBN-978-0-470-71453-9, 2-nd Ed, 2014., pp. 1-729, ISBN-978-1-118-71779-0. (The monograph/textbook is intended for graduate students, researchers, and practicing engineers). In Chinese, IEEE Press/John Wiley & Sons, Beijing, China, 2012.

11. M. K. Kazimierczuk, *Solutions Manual for High-Frequency Magnetic Components,* John Wiley & Sons, Chichester, UK, 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.

13. M. K. Kazimierczuk and A. Ayachit, *Laboratory Manual for Pulse-Width Modulated DC-DC Power Converters*, John Wiley & Sons, Chichester, UK, 2016, pp. 1-247.

14. M. K. Kazimierczuk, D. K. Saini, and A. Ayachit, *Average-Current Mode Control of DC-DC Power Converters*, John Wiley & Sons, Chichester, UK, 2022, pp. 1-336, ISBN-13: 978-1-119-52565-3. DOI: 10.1002/9781119525592.

Book Chapter

1. A. Reatti, M. K. Kazimierczuk, and A. Ayachit, and F. Corti, *Emerging Capabilities and Applications of Wireless Power Transfer,* Ch. 3, *Resonant Compensations in Inductive Wireless Power Transfer System.* IGI Global: International Science and Technology Research, New York, 2018.

Peer-Reviewed International Archival Journal Articles

1977

1. 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.

1980

2. M. K. Kazimierczuk and J. M. Modzelewski, "Drive-transformer-less Class-D voltage switching tuned power amplifier," *Proceedings of the IEEE*, vol. 68, no. 6, pp. 740-741, June 1980.

1981

3. 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.
4. 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.
5. 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.

1982

6. 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.

1983

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.

1984

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.

1986

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.

1987

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.

1988

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.

1989

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. 4, 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 E^2 narrow-band resonant dc/dc converters," *IEEE Transactions on Instrumentation and Measurements,* vol. IM-38, no. 6, pp. 1064-1068, December 1989.

1990

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-E^2 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 E^2 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.

1991

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.

1992

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.

1993

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 on 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. 3, 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. 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, no. 12, pp. 542-552, December 1993.

1994

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, no. 2, 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.

1995

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.

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264. A. Reatti, F. Corti, A. Tesi, A. Torali, and M. K. Kazimierczuk, "Effects of parasitic components on dynamic performance of power stages of dc-dc PWM buck and boost converters in CCM," IEEE International Symposium on Circuits and Systems (ISCAS'2019), Sapporo, Japan, May 26-29, 2019.

265. N. Kollipara, M. K. Kazimierczuk, A. Reatti, and F. Corti, A, "Phase-control and power optimization of LLC converter," IEEE International Symposium on Circuits and Systems (ISCAS'2019), Sapporo, Japan, May 26-29, 2019.

266. A. Agasthya, M. Abdul-Hak, and M. K. Kazimierczuk, "Analysis of multiple-EV wireless power transfer systems using a single transmitter coil," IEEE Transportation Electrification Conference, Novi, NI, June 19-21, 2019.

267. A. Agasthya, M. Abdul-Hak, and M. K. Kazimierczuk, "Transfer function of wireless power transfer systems with series-parallel compensation schemes," IEEE Transportation Electrification Conference, Novi, NI, June 19-21, 2019.

268. A. Agasthya, S. U. Hasan, Y. P. Siwakoti, M. Abdul-Hak, M. K. Kazimierczuk, and F. Blaabjerg, "Coupled-inductor bidirectional dc-dc converter for EV charging applications with wide voltage conversion ratio and low parts counts," in Proc. IEEE Energy Conversion Conference & Expo (ECCE'2019), Baltimore, MD, September 29-Ocrober 27, 2019.

269. H. Al-Baidhani, M. K. Kazimierczuk, A. Reatti, and F. Grasso, "Digital integral-lead control of dc-dc buck converter for CCM," 45th Annual Conference of the IEEE Industrial Electronics Society (IECON'2019), Lisbon, Portugal, Washington, October 14-17, 2019.

270. A. Chadha and M. K. Kazimierczuk, "Tapped-inductor buck dc-dc converter with complex load," IEEE 62nd International Midwest Symposium on Circuits and Systems (MWSCAS 2019), Dallas, TX, USA, August 4-7, 2019.

2020

271. F. Corti, A. Reatti, M. C. Piccirill, F Grasso, L. P. Luci, and M. K. Kazimierczuk, "Simultaneous wireless power and data transfer: Overview and application to electric vehicles," IEEE International Symposium on Circuits and Systems (ISCAS'2020), Seville, Spain, May 17-20, October 11-14, 2020.

272. A. Bartolini, L. Ciani, F. Corti, F Grasso, A. Reatti, and M. K. Kazimierczuk, "Analysis and design of stand-alone photovoltaic system for precision agriculture network of sensors," 20th IEEE International Conference on Environment and Electrical Engineering (EEEIC20), Madrid, Spain, June 9-12/October 10-21, 2020.

2021

273. H. Al-Baidhani, M. K. Kazimierczuk, and H. Sekiya, “Digital integral-lead control design of dc-dc buck converter for CCM,” IEEE International Symposium on Circuits and Systems (ISCAS’2021), Daegu, Korea, May 23-26, 2021.
274. H. Al-Baidhani, M. K. Kazimierczuk, and H. Sekiya, “Pole placement via state feedback with integral control of inverting dc-dc buck-boost converter,” The 3-th International Symposium on Industrial Electronics (ISIE2021), Kyoto, Japan, 20-23 June 2021.

Citations:

1. Science Citation Index, *Web of Science, Web of Knowledge*, Clarivate Analytics (formally Thomson-Reuters) Science Citation Index: 6375 citations of journal papers, Hirsh h-index = 45. The average citation of journal papers per paper AVG = 29.79. https://www.webofscience.com/wos/woscc/citation-report/5205d3a8-bb32-4e8b-a6c1-56fa78f0e0b2-3a540692

   http://apps.webofknowledge.com/Search.do?product=WOS&SID=1DgQiaX-QHv84l1GALB4&search_mode=GeneralSearch&prID=d7561cd6-bfe5-4982-8530-a0e050f3f17e
2. Google Scholar: 18,694 citations, h-index = 64, i10-index = 290. Since 2017, 687 citations, h-index = 35, i10-index = 164.

   http://scholar.google.com/citations?user=O4JmDHYAAAAJ&hl=en
3. Scopus (Elsevier): 11,125 citations, h-index 54.
4. Research Gate: RG Score = 414, Reads 87,882, Citations = 11,694, Recommendations 81. Total Research Interests, 6,4319.
5. Research.com

   h-index = 66, citations 16,187, world rankings 382, USA ranking 198 in electronics and electrical engineering.

   https://research.com/u/marian-k-kazimierczuk
6. Microsoft Academic Ranking: 2368 citations, G-index = 36, h-index = 25.
7. Top Authors in Engineering, 229-th position in the world, 154-th in USA, 1-st in Ohio. He is one of the top engineering authors in the international pool of more than 2 million of publishing authors.
8. Top Authors in Electrical & Electronic Engineering, 75-th position in the world, 52-nd in USA, 2-nd in Ohio. He is one of the top authors in the international pool of more than half of a million of publishing authors in the areas of electrical and electronic technology.
9. Google Scholar: 1st in world in RF Electronics, 1st in the world in Modeling and Control, 4th in the world in Magnetics, 4th in the world in Industrial Electronics, and 48th in the world in Power Electronics.
10. ORCID: 0000-0003-4275-0507

World Ranking by Scopus

14, 422 position among all scientists in the world.

Productivity

Approximately 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 33 years. Grants and contracts include NSF, National Academy of Science, DOE, DOD, DARPA, and industry.

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 Uklady 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, Uklady 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, Uklady 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, Uklady 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, Wydz. Elektryczny i Wydz. 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 Uklady 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, IE-TiME 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.

PATENTS

https://patents.google.com/?inventor=Marian+Kazimierczuk&oq=Marian+Kazimierczuk

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, “Super-capacitor charging,” U. S. Patent 5,914,542, January 22, 1999.
3. J. A. Weimer, M. K. Kazimierczuk, and R. C. Cravens, “Super-capacitor 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.

PATENT INFRINGMENT EXPERTISE

Served as an expert witness and participated in many patent litigations and patent invalidations.

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 CONTRIBUTIONS

The objectives of my professional life have been contributions to the advancement of fundamental science and engineering, the inquiry and advancement of knowledge and perform research for the benefit of humanity. I always wanted to be a good educator and researcher. The body of my work is impressive. My research has high practical relevance. It is transformative in nature. I have tried to achieve a sustained record of excellence and to make profound contribution to the field. The mission of my scientific life has been advancing the technology for the benefit of humanity. A testimony to the quality of my research are peer reviewed archival journal papers, conference papers, and monographs at a high international level. My articles are published in the best peer-reviewed international journals and international conference proceedings, which are indexed in the leading databases of science and engineering, such as *Thomson-Reuters ISI Science Citation Index* and scholar.google.com. My monographs are published by top internationally recognized publishers, such as John Wiley & Sons, Prentice-Hall (Pearson), and IEEE Press. One of the main objectives of my research is to reduce the dependence of mankind on fossil fuel. The major contributions of my research are as follows:

1. Major and lasting contributions to the invention and development of electronic ballasts for fluorescent lamps. A multibillion-dollar industry has been created. Electronic 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*, 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 on electronic ballasts in the top international archival journals and conference sessions. 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 a significant component of ``green energy 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 CO_2 by 15 mln tons a year. This has

been an extraordinary and 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 widely used for studying dynamic performance of dc-dc power converters and designing control circuits.
9. Derivation of a model for peak current-mode controlled PWM dc-dc converters. This model is useful in designing two-loop control circuits for PWM dc-dc power converters.
10. Contribution to average current-mode control, which improves noise immunity reduces and reduces THD.
11. Analysis and design of PWM dc-dc converters (including a monograph and graduate textbook by John Wiley & Sons, 2008)
12. 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 John Wiley & Sons, 2008). Class E amplifier is the most efficient transmitter used in wireless communications.
13. Development of high-efficiency resonant dc-dc converters (including a monograph and graduate textbook by John Wiley & Sons, 1995).
14. Modeling and control of PWM dc-dc converters.
15. Analysis and design of high-frequency magnetic components.
16. Development of microwave microscope, used in testing superconductors and other materials, including biological tissues.
17. External research funding from the most competitive federal agencies, such as NSF, National Academy of Science, Department of Energy, and Department of Defense.
18. Science Citation Index shows over 2000 citations and h-index = 28. Google Scholar shows 5589 citations, h-index=44, and i10-index = 126.

NEW COURSES DEVELOPED

EE 7410	Power Semiconductor Devices
EE 7420	Power Electronics
EE 7430	High-Frequency Magnetic Components
EE 7440	RF Power Amplifiers
EE 8990	Independent Studies
EE 8980	Ph.D. Dissertations
EGR891	Ph.D. Seminar
EE 3310	Electronic Devices
EE 332	Electronic Devices Laboratory
EE 431	Electronic Circuits
EE 432	Electronic Circuits Laboratory
EE 434	Electronics Laboratory
EE 4440	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 has 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 25 years. He has written an undergraduate textbook: *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 four graduate courses in the area of power electronics for graduate M.S and Ph.D. students: EE7410, EE 7420, EE7430, and EE7440.

1. EE7410 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. EE7420 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. For these two courses, he has published a book: *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; 2nd Ed., 2016, pp. 1-930.

3. EE7430 High-Frequency Magnetic Components covers properties of magnetic materials, magnetic cores, complex permeability, core losses, eddy currents, skin effect, proximity effect, Dowell's equation, winding losses, losses caused by harmonics, self-capacitance, and design of power inductors and transformers. For this course, he has published a book: *High-Frequency Magnetic Components*, John Wiley & Sons, New York, NY, 2009, pp.1-486, ISBN-978-0-470-71453-9, 2-nd Ed, 2014., pp. 1-729, ISBN-978-1-118-71779-0.

4. EE7440 RF power Amplifiers. Covers important topics for radio transmitters. For his course, he has published a book: *RF Power Amplifiers*, John Wiley & Sons, New York, NY, 2008, pp. 1-405, ISBN 978-0-470-77946-0; 2-nd Ed. 2015, pp. 1-658.

5. EE7450 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, 1-st Ed., John Wiley & Sons,* 1995*, 2nd Ed.,* 2011.

All the four courses are non-required and attract 60 to 105 graduate students every quarter or semester.
His teaching and research brings a healthy balance of scientific progress and spiritual depth.

His teaching philosophy is provide deep understanding the major scientific and engineering concepts and to develop lifelong learning skills. Learning is a lifelong journey in today's world. Soft skills such as social and behavioral skills are as important as hard skills in math and science. He encouraging research-based learning and developing intellectual skills.

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 EE7410, EE7420, EE7430, and EE7440.

COURSE DIRECTOR

EE331, EE332, EE431, EE432, EE401, EE444, EE449, EE741, EE742, EE743, EE880, EE4440, EE7410, EE7420, and EE7440.

BOOKS

1. Two undergraduate textbooks with solutions manuals in electronics area published by Prentice-Hall.
2. Five 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.
5. "Education in the USA, Warsaw University of Technology, December 2009.
6. "GaN transistors," Technical University of Denmark, August 2015.

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. Venkata Sai Aditya Kumar Choragudi M.S.E.E. 2011
63. Dhivya Ammanambakkan Nagarajan M.S.E.E. 2011
64. Ramchandran Mahendrabhai Kotecha M.S.E.E. 2011
65. Curt Zackiewicz M.S.E.E. 2011
66. Agasthya Ayachit M.S.E.E. 2011
67. Keshava Gopalakrishna M.S.E.E. 2013
68. Ramayya J. George M.S.E.E. 2014
69. Sourav Dey M.S.E.E. 2014
70. Shweta Chauhan M.S.E.E. 2014
71. Alex David Compton M.S.E.E. 2015
72. Dalvir K. Saini M.S.E.E. 2015
73. Lokesh Kathi M.S.E.E. 2015
74. Ankit Chadha M.S.E.E. 2015
75. Alex Michael Kavouras M.S.E.E. 2015
76. Scott Atkins M.S.E.E. 2015
77. Varun Pundhir M.S.E.E. 2016
78. Avinash Lanka M.S.E.E. 2016
79. Sowjanya Kommu M.S.E.E. 2016
80. Abhishek Vijay Danekar M.S.E.E. 2017
81. Michael Trombley M.S.E.E. 2017
82. Nathaniel Smith M.S.E.E. 2018
83. Nagasri Kollipara M.S.E.E. 2018
84. Donald Danko M.S.E.E. 2019
85. Anuroop Redy Dasari M.S.E.E. 2020
86. Celenia Franklin M.S.E.E. 2020
87. Erich Steinbrnner M.S.E.E. 2021
88. Owen D. Reimer M.S.E.E. 2021
89. Steven P. Cornett M.S.E.E. 2021

Total 88 MS Students

Also, advised 36 M.S. students at the Department of Electronics, Warsaw University of Technology, Warsaw, Poland.

PH.D. STUDENTS SUPERVISION

1. Karl S. Gudmundsson 2004, Assoc. Prof., Dean, Keilir Institute of Technology, Island, karlsg@keilir.net, (354) 821-5664; now Full Professor, Director of Allied Center, Faculty of Electrical and Computer Engineering, University of Island, karlsg@hi.is, www.fag.hi.is, Mobile + 354 8216466.
2. Brad S. Bryant 2004, Design engineer, Dayton-Phoenix Co., Dayton, OH, brad@bcaudio.biz .
3. Richard A. Kleismit 2005, Assistant Research Prof., Physics Department, Wright State University
4. Donald J. Kessler 2005, University of Dayton, (Formally General Dynamics), Dayton, OH, ki6sz@earthlink.net, (937) 429-8857
5. Greg Gazzell 2009, Wright-Patterson Research Laboratory, US Air Force Base, Greg.Gazzell@wpafb.af.mil .

6. Simon Joseph Tritschler 2010, Department of Biomedical, Industrial, and Human Factor Engineering, Wright State University, (formally Tiburon Co, Dayton, OH), jopseph.tritchler@wright.edu .
7. Nisha Kondrath 2010, 2021 L3 Harris Co, Philadelphia, Assistant Professor, Department of Electrical and Computer Engineering, Villanova University, Villanova, PA 190850 (formally Assistant Professor, University of Minnesota-Duluth, Swenson College of Engineering, Department of Electrical and Computer Engineering, Duluth, MN, nisha.condrath@villanova.edu . Tel.: (218) 726-6385).
8. Dakshina Murthy-Bellur 2011, Cummings, Inc, dakshina.murthy-bellur@cummings.com 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
9. Robert Carl Fitch, Jr. 2011, Air Force Research Laboratories, WPAFB, Dayton, OH, Robert.Fitch@wpafb.af.mil
10. Veda Prakash N. Galigekere, 2012, Senior electrical engineer, Lear Co., 21557 Telegraph Rd, Southfield, MI48033; Oakridge Ridge National Laboratory, Power Electronics and Electric Machinery Group, TN, galigerkerevn@ornl.gov
11. Julie J. Lee 2012, Case Western Reserve University, Dept of Electrical Eng., Cleveland, OH; Emerson, Cleveland, OH.
12. Rafal Wojda 2012, Research and Development Scientist, ABB, Cracow, Poland, Oakridge Ridge National Laboratory, Power Electronics and Electric Machinery Group, TN, wojda.raf@ornl.gov
13. Thomas R. Salvatierra 2015, Electronics Engineer, PowerSphyr Inc., Grand Rapids, MI49525, Salvatierra.2@wright.edu, 2020 Grand Valley State University, School of Engineering, Grand Rapids MI,(616) 331-6004.
14. Todd Grimes 9/9/2016, RNET Technologies Co., Dayton, OH.
15. Dalvir K. Saini Defended 5/18/2018, Research Engineer, University of Dayton Research Institute. dalvir.saini@udri.udayton.edu
16. Agasthya Ayachit Defended 7/2/2018, Systems Engineer, Mercedes-Benz Research & Development, Redford, MI, agasthya.ayachit@daimler.com
17. Hur Jedi Started (1/2/2015).Research proposal 4/18/2018, defended 11/16/2018. Jedi.2@wright.edu
18. Ankit Chadha Started (1/7/2016). Chadkha.2@wright.edu, defended December 6, 2019, X-Wave Innovations, Inc, Chicago Tools.
19. Humam Al-Baidhani Started (1/2/2015). al-bahami.2@wright.edu, defended April 8, 2020.
20. Lokesh Kathi Started (1/7/2016). lokesh.kati64@wright.edu, defended July 31, 2020.
21. Daniel J. Whitman Started (9/07/2010). Proposal defense Aug. 15, 2019, defended May 14, 2021. Dwhitman44@gmail.com
22. Jason Anders Candidacy exam, 7/2/2019, mail.jason.321@gmail.co, defended July 9, 2021.
23. Aji Georges Mattamana Started May 2020. Candidacy exam, 4/22/2022 aji.mattamana@us.af.mil.
23. Owen D. Reimer Started August 23, 2021
23. Richard Allan Fowlkes Started (9/9/2016), Candidacy exam, 4/26/2018. Fowlkes.3@wright.edu .
24. Weston R. Earick Passed Qualifying Exam, Candidacy Exam, Research Proposal, 8/17/10.
25. William C. Quinn Started (8/25/2012).

GRADUATE 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 - 1010

3. Dalvir K. Saini 2015
4. Agasthya Ayachit 2018

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), Nisha Das (1 quarter), Jeff Bouger (16 quarters), and Thomas Salvatierra (9.67 semesters).

Total Support (70.67 quarters)

POST-DOCTORS, SABBATICALS, AND RESEARCH ASSOCIATES

1. Wojciech Szaraniec
2. Alberto Reatti (sabbatical)
3. Massimo Bartoli
4. Antonio Massarini (sabbatical)
5. Andrea Armanni
6. Giuseppe Sancineto
7. Tadashi Suetsugu (sabbatical)
8. Kamon Jirasereeamornkul
9. Hiroo Sekiya (2 year sabbatical), Feb. 1, 2008-Feb. 1, 2010.
10. Francesco Crasso
11. Xiang Zhiang

Fulbright Scholars

1. Rafal Wojda
2. Andrey Kapustin

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 85%.
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 No. 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.

28. ``Class E, high-efficiency transmitting amplifier (CHEETA)," PI, WSU No. 668679, FO-P 668679-283015-20014, Contract No. FA8650-11-C-7184, DPAS Rating DO-07, 11/1/2011-12/30/2014, $351.256.

29. ``Micro-scale Power Conversion (MPC)," PI, DARPA, WSU Proposal Number 11-843-13, DARPA, $351,256.01 11/1/2011-11/1/2014.

30. ``Micro-scale Power Conversion (MPC)," PI, WSU Account Number 668679, DARPA, first phase $87,077.01, 11/1/2011-7/30/2012, second phase $88,066.32 ($175,143.33), 8/1/2012-4/30/2013, third phase $58,710.88 ($233,853.33), 5/1/2013-10/30/2013. Total $351,256.01, total 11/1/2011-11/1/2014.

31. ``Reexamination of the perfect fluid model within general relativity form an engineering prospective in light of the accelerating expansion phenomenon," Pi, WSU No. 12-0740-10, $113,962, 10/01/2012-09/01/2013.

32. `Electronic properties of nitrides and oxides", UES AFRL, $62,153, 8/26/2019-4/30/2021, Prime Contract #FA8650-16-5408, Delivery Order #FA8550-17-F-5418 (NeMO TO 02).

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.

In addition, I supervise 2 Iraqi PhD students whose tuition and fees are paid in full for the entire PhD program by Iraqi government. Hur Jedi graduated in Fall 2018 and left to Iraq in February 2019. Humam Al-Baidhani will graduate in 2019.

REVIEWER OF TECHNICAL JOURNALS, NSF, URC, 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 Electromagnetic Compatibility (3 papers a year)
IEEE Transactions on Education (3 papers a year)
IEEE Transactions on Dielectric and Electrical Insulation (2 paper a year)
IEEE Transactions on Plasma Science (1 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)
Electronic Letters (9 papers a year)
Solid-State Electronics (2 papers a year)
International Journal of Circuit Theory and Application (25 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)
Emerald COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Eng.
Journal of Power Electronics (3 paper a year)
Bulletin of the Polish Academy of Sciences (2 papers per year)
Hindawi Publishing Corporation, VLSI
European Conference on Circuit Theory and Design (2 papers a year)
Reviewer for Dept. of Energy (DOE) (6 proposals a year)

Reviewer for NSF (4 proposals a year)
National Academy of Science, USA (1 proposal a year)

Book Reviews

John Wiley & Sons Publishers (6 books)
Prentice-Hall (3 books)
McGraw-Hill (2 books)
Taylor & Francis (3 books)
Elsevier Scientific Publishing Company (1 book)
West Publishing Company (2 books)

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, 2011-2013
Research Council Committee	Member	2011-2013
Outside Interest Committee	Member	1011-2014
Graduate School Hearing Committee	Member	2012
Students Affairs Committee	Member	2011-2011
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 Sub-committee	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, 2012-2013
Parking Committee	Member	2005-2010
Civil Engagement Task Force Committee	Member	2004-20012
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 Sub-committee of UCAP	Member	2009-2012
Search Committee, Dean of College of Eng. & Comp. Sci.	Member	2010
Search Committee, Dean of College of Eng. & Comp. Sci.	Member	2013
Research Integrity Committee	Member	2013-
AAUP-WSU Bargaining Council Committee	Member	2010-11

COLLEGE COMMITTEES

Steering Committee	Member	2000-2006
Steering Committee	Chair	2001-2002
Faculty Development Committee	Member	1995-1999, 2002-2004, 2007-20014

Teaching Committee	Chair	2003-2004
Teaching Committee	Member	2009-2011
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. Dissertation Qualified Faculty		1997-
Ph.D. Student 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
Ph.D. Program Students Affairs Committee	Member	2012-2013

DEPARTMENT COMMITTEES

EE Faculty Development Committee	Member	1990-2006, 2009-12
EE Faculty Development Committee	Chair	1996-2000, 2003-2004, 2007-2009 2010-2012
Engineering Physics Program Committee	Co-Director	1993-2008
Engineering Physics Program Committee	Member	2008-2011
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	1986-2012
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
Academic Computing Committee	Member	2013-2014
Ph.D. Committee of Electrical Engineering	Member	2015-2016

PROFESSIONAL SERVICE

1. IEEE Fellows Committee Evaluator 2017-

PANEL REVIEW OF RESEARCH PROPOSALS

2. U.S. Department of Energy 2011-2019

The proposal are in various areas of energy such as solar and wind

renewable energy sources, clean energy, elective vehicles. wide-band gap (WBG) power semiconductor devices (SiC and GaN). The objective is the make the US industry competitive.

Power of America 2012-

Bonneville Power Administration 2011-2017

3. European Research Council (ERC, StG PE17) 2012-2020

The ERC is a research funding agency of EU, like the NSF in the USA.
Two 1-week meetings a year (in March and June) take place in Brussels, Belgium.
The Panels evaluates multidisciplinary proposals in varies areas of engineering and sciences such as renewable energy sources, sensors, nanotechnology, medical images, and applied physics and chemistry. The very top world scientists are selected and serve as Panel Members in the ERC Panels to evaluate research proposals. In addition to review many proposals, the Panel Members serve as lead reviewers. Up 12 non-panel members and experts in the field of the proposal review each proposal.

4. Hong Kong Research Grants Council 1998-2004
5. Swiss National Foundation 2019
6. Industrial Research Council KU Leuven, Belgium 2019

ASSOCIATE EDITOR

IEEE Transactions on Circuits and Systems, I	1993-1995, 1997-2001, 2003-2005
IEEE Transactions on Industrial Electronics	2005-2019
International Journal of Circuit Theory and Applications	2008-2020
International Journal of Circuits, Systems, and Computers	1992-2000
IET Circuits, Devices & Systems	2013-present
IEEE Transaction on Circuits and Systems, I, Guest Editor, Special Issue on Switching Circuits and Systems	August 2003
IEEE Transaction on Power Electronics, Guest Editor, Special Issue on Lighting Applications	May 2007
Member of the Advisory Editorial Board of the Archives of Electrical Engineering	2009

IEEE TECHNICAL COMMITTEE CHAIR

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

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

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	1996-2019
IEEE Power Electronics Specialists Conference	1994-2004

IEEE Energy Conversion Congress and Exhibition 2010-2014
IEEE International Power Electronics Conference 1999-2000
IEEE International Symposium on Industrial Electronics 1996, 2014
International Conference of Electronics, Circuits, and Systems 2004-2006
IEEE International Conference on Power Electronics and Drive Systems,
International Steering Committee 2007
Electrical Manufacturing and Coil Winding Association Conference
Technical Program Co-Chair 2008-
IEEE INTELEC Technical Committee Member 2015

SESSION CHAIR

1st IEEE Conference on Control Applications, Dayton, OH 1992
Session TP-4 Machines, Co-chair
IEEE Power Electronics Specialists Conference
Session 14 Topology IV: Power Factor Correction, Chair 1993
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,
Track Chair for Resonant Converters 2006
IEEE International Symposium on Circuits and Systems, New Orleans
Chair for Power Electronics Track and Power Systems Track 2007
Session: DC-DC Power Converters
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 2011
Review Committee Member (RCM)
Session Chair: Power Electronics Circuits I
Session Chair: Power Converters II
IEEE International Symposium on Circuits and Systems, Soul, South Korea 2012
Review Committee Member (RCM)

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 Board of Directors

PH.D. COMMITTEES IN OTHER UNIVERSITIES

1. Randall Shaffer, University of Dayton, 1999
2. Ian Douglas de Vries, University of Cape Town, South Africa, 1999
3. Samuel Sau-Man Chan, City University of Hong Kong, 2005
4. Leung Ka Sing, City University of Hong Kong, 2005
5. Chin Yat Chung, City University of Hong Kong, 2006
6. Carl Ngai-Man Ho, City University of Hong Kong, 2006
7. Siu Wai Leung, City University of Hong Kong, 2007
8. Song Tingting, City University of Hong Kong, 2007
9. Szymon Pasko, Silesian University of Technology, Poland, 2010
10. Mickey Madsen, Technical University of Denmark, Denmark, 2015
11. Maria Del Carmen Mira Albert, Technical University of Denmark, Denmark, 2016

12. Nirmana Perera, EPFL, Lausanne, Switzerland, 2022
13. P. V. V. Kishore, Andhra University, India, in progress.