

CURRICULUM VITA

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Born: 1 February 1938, Milwaukee, Wisconsin

Citizenship: U.S.A.

Wife's Name and
Birth Date: Christine, 10/29/37 (deceased 8/18/2004)

Children's Names
and Birth Dates: Carl P., 4/24/65 Patrick J., 9/19/70
Emily K., 9/15/66 Anna M., 4/29/72

EDUCATION

June, 1962 BEE (Honors), Marquette University
Milwaukee, Wisconsin

June, 1964 MSEE, Marquette University
Milwaukee, Wisconsin

February, 1968 Ph.D., University of Wisconsin
Madison, Wisconsin

PROFESSIONAL EXPERIENCE

Employment

June 1960 – June 1964 Cooperative Student Trainee, Allis-Chalmers Mfg., Company, Milwaukee, Wisconsin

Sept. 1962 – June 1964 Graduate Studies at Marquette University, Milwaukee, Wisconsin in Electrical Engineering; MSEE Thesis: "Analysis of Single-Stator Double-Rotor AC Machine".

June 1962 – June 1964	Graduate Trainee, Allis-Chalmers Mfg. Co., Milwaukee, Wisconsin.
June 1964 – Sept. 1964	Engineering Analyst, Allis-Chalmers Manufacturing Co., Milwaukee, Wisconsin
Sept. 1964 – Feb. 1966	Instructor, University of Wisconsin, Milwaukee, Wisconsin.
Feb. 1966 – Feb. 1968	Graduate Studies at the University of Wisconsin, Madison, in Electrical Engineering: Ph.D. Thesis: "Lyapunov Stability Analysis of a Class of Inverter Drives".
Feb. 1968 - Sept. 1968	Lecturer, University of Wisconsin, Madison, Wisconsin.
Sept. 1968 - Aug. 1969	NRC Research Fellow, University of Manchester Institute of Science and Technology, Manchester, England.
Aug. 1969 – Aug. 1979	Electrical Engineer, General Electric Co., Schenectady, New York. (On sabbatical from August 1973 to August 1974).
Aug. 1973 – Aug. 1974	Visiting Associate Professor, Purdue University, West Lafayette, Indiana.
Aug. 1979 – Dec. 1980	Professor, Purdue University, West Lafayette, Indiana (Tenured 8/79).
Jan. 1981 - April 1990	Professor, University of Wisconsin, Madison, Wisconsin (Tenured 5/81)
April 1990 – Dec. 2008	W.W. Grainger Professor of Power Electronics and Electrical Machines, University of Wisconsin, Madison, Wisconsin
Jan. 1981 – Dec. 2008	Co-Director, Wisconsin Electric Machines and Power Electronics Consortium (WEMPEC)
Jan. 2009 – Present	Professor Emeritus, University of Wisconsin, Madison Wisconsin

PROFESSIONAL ACTIVITIES (Selected subset)

I.E.E.E. Activities

1964 - Present	'64-70 Member, '71-86 Senior Member, 87-2005 Fellow, 2006 – present, Life Fellow.
1974 – Present	Member of the Induction Machine Subcommittee of the IEEE Power Engineering Society, Chairman 1980-1984.
1974 – 1990	Member of the Machine Theory Subcommittee of the IEEE Power Engineering Society, Acting Chairman 1981.
1974 – 1990	Member of the Working Group on Calculation of Torque Pulsations During Starting of Synchronous Motors, Power Engineering Society, Chairman since 1981.
1975 – Present	Member of the Synchronous Machine Subcommittee of the IEEE Power Engineering Society.
1976 – Present	Member of the Industrial Drives Committee of the IEEE Industry Applications Society, Secretary 1982-83, Vice-Chairman 1984-5, Chairman 1986-87.
1976 – 1989	IEEE Power Electronics Specialist's Conference (An Annual Conference), Program Committee '76-'89, Papers Co-Chairman 1979; Papers Chairman, 1980, General Chairman, 1989.
1982 – 1989	Working Group on "Test Procedure for Loss and Efficiency Determination of Adjustable Speed Drives" P.995, IEEE Industry Applications Society.

1983 – 1990	Founding Editor of the IEEE Transactions on Power Electronics.
1984 – Present	Member of Electric Machines Committee of IEEE Industry Application Society.
1986 – 1989	Member-at-Large, IEEE Industry Application Society Executive Committee.
1989 – 1996	Chairman of the Industrial Power Conversion Systems Dept. Member of the IEEE Industry Application Society Executive Committee, Society Secretary 1992, Vice President 1993, President 1994, Immediate Past President 1995, Senior Past President 1996.
1986 – 1990	Member of the Executive Committee of the Madison Section of IEEE, '86-'87 Promotion Chairman, '87-88 Secretary, 88-89, Vice Chairman, 89-'90 Chairman.
1988 – 1992	Member of IEEE Power Electronics Society Administrative Committee (ADCOM).

International Professional Activities

1976 – Present	Associate Editor of Electric Machines and Power Systems, an International Quarterly.
1985 – 2003	Editor of the Book Series "Power Electronics and Power Systems," Kluwer Academic Publishers, Holland.
1978 – 1996	Steering Committee Member of the International Conference on Electric Machines, Vienna 1976, Brussels 1978, Athens 1980, Budapest 1982, Lausanne 1984, Munich 1986, Pisa 1988, Boston 1990, Program Chm, 1990.
1982-83, 89-90	Member of Papers Committee of the International Power Electronics Conference (IPEC), Tokyo Japan, March 27-31, 1983, April 1990.
Sept. 1992 – Jan. 1993	NRC Research Fellow, University of Manchester Institute of Science and Technology, Manchester, England.
July 1987 – Dec. 2008	Director, Wisconsin Power Electronics Research Center (WisPERC)
Feb. 1989 – March 1989	Visiting Professor, University of Sydney, Sydney Australia
Jan. 1996 – Feb 1996	Visiting Professor, Monash University Melbourne Australia
March 1996 – May 1996	Fellow, Saint John's College, Cambridge University, Cambridge England
Jan. 2000 – Jan. 2010	Visiting Professor, Monash University, Melbourne Australia
April 2009-April 2013	Chair Professor, Hanyang University, Ansan South Korea
Sept. 2012- Nov. 2013	International Advisor and Visiting Professor, Harbin Institute of Technology, Harbin China

MAJOR AWARDS AND HONORS

October 1986	Outstanding Achievement Award of the IEEE Industry Applications Society, Presented at the 1986 IAS Annual Meeting, Denver CO, Sept. 30 1986, "For Contributions to Industrial AC Drives".
January 1987	IEEE Fellow, Fellow Citation: "For Contributions to the Understanding of Electrical Machinery, In Particular Solid-State AC Motor Drives".

April 1990	Appointment as the W.W. Grainger Professor of Power Electronics and Electrical Machines, University of Wisconsin-Madison.
June 1990	William E. Newell Award of the IEEE Power Electronics Society, Presented at the 1990 IEEE PELS Power Electronics Specialist's Conference, June 14, 1990, "For Contributions to Power Electronics".
February 1995	IEEE Nicola Tesla Field Award, Presented at the 1995 Power Engineering Society Winter Meeting, February 1995, "For pioneering contributions to simulation of and application to electric machinery in solid-state ac motor drives".
June 2000	IEEE Third Millennium Medal for Outstanding Achievements and Contributions to Power Electronics, IEEE Power Electronics Society.
September 2001	Senator of the University Honoris Causa, University of Maribor, Maribor Slovenia.
November 2002	Elected Fellow of the Royal Academy of Engineering (Great Britain) (only one of 25 US members of this esteemed academy)
May 2004	Hilldale Award in Physical Sciences, University of Wisconsin-Madison. (most prestigious award by given by UW in the physical sciences. First EE Dept. faculty member to ever achieve this honor.)
Oct. 2008	Elected Fellow of the National Academy of Engineering (USA) (only the second UW EE faculty member to ever be elected)
Sept. 2008 – Dec 2008	Fulbright Fellow, NTSU (Norwegian University of Science and Technology), Trondheim Norway
July 2009-July 2014	WCU Distinguished Professor, Hanyang University, Ansan-City, Korea
July 2010	The Royal Academy of Engineering Distinguished Visiting Fellowship, University of Sheffield, England (Only one of roughly 25 US members)
September 2011	EPE Power Electronics and Motion Control Conference, Outstanding Achievement Award, Ohrid Macedonia
February 2013	Elected Fellow of the National Academy of Inventors (USA)
September 2014	Recipient of the IEEE Medal in Power Engineering

OTHER HONORS

February 1978	Outstanding Paper Award in Rotating Machinery for 1977 by IEEE Power Engineering Society for "A Novel Approach to Induction Motor Transfer Functions" with A. B. Plunkett (Engraved Plaque).
September 1980	Prize Paper Award at 1980 IEEE-IAS Petroleum and Chemical Industries Conf., for "Torsional Coordination of High Speed Synchronous Motors, Part II" with E. L. Owen and H. D. Snively (Engraved Plaque).
October 1982	Third Prize Paper Award at 1982 IEEE-IAS Annual Meeting for Design and Performance of a Converter Optimized AC Machine" with F.X. Wang.
October 1984	First Prize Paper Award for the Best Paper in Industrial Drives at the 1984 IAS Annual Meeting for "A Rotor Parameter Identification Scheme for Vector Controlled Induction Motor Drives," with T. Matsuo.
October 1984	First Prize Paper Award for the Best Paper in the 1983 IEEE IAS Transactions for "A Quantitative Analysis of Induction Motor Performance Improvement by SCR Voltage Control," with T.M. Rowan.
October 1986	First Prize Paper Award for Best Paper in Industrial Drives at 1986 IAS Annual Meeting

- for "An Automated Rotor Time Constant Measurement System for Indirect Field Oriented Drives," with C.-G. Wang and D.W. Novotny.
- January 1986 Selection as IEEE Distinguished Lecturer for Region 10 (Southeast Asia and Australia).
- October 1986 Third Prize Paper Award for Papers on Static Power Converters at 1986 IAS Annual Meeting for "Power Conversion Distribution System Employing a Resonant High Frequency Link," with P. Sood.
- October 1988 Second Prize Paper Award for Papers on Electric Machinery at 1988 IAS Annual Meeting for "Power Capability of Salient Pole Permanent Magnet Synchronous Motors in Variable Speed Drive Applications" with R. Schiferl.
- October 1988 Third Prize Paper Award for Papers on Static Power Converters at 1988 IAS Annual Meeting for "High Frequency Series Resonant DC Link Power Conversion," with Y. Murai.
- October 1988 Third Prize Paper Award for Papers on Industrial Drives at 1988 IAS Annual Meeting for "Design and Performance of a High Frequency Link Induction Motor Drive Operating at Unity Power Factor" with S.K. Sul.
- October 1990 First Prize Paper Award in Industrial Drives at 1990 IAS Annual Meeting for "Vector Control of Synchronous Reluctance Motor Including Saturation and Iron Loss," with L. Xu, X. Xu, and D.W. Novotny.
- January 1991 Selection as a member of the Electromagnetics Academy and "Who's Who in Electromagnetics"
- October 1991 First Prize Paper Award in Industrial Drives at 1991 IAS Annual Meeting for "A Simple and Robust Adaptive Controller for Detuning Correction in Field Oriented Induction Machines," (Certificate Plus Honorarium).
- October 1991 Second Prize Paper Award in Industrial Power Conversion Systems at 1991 IAS Annual Meeting for "A Modified C-Dump Converter for Switched Reluctance Machines".
- January 1992 IEEE Distinguished Lecturer for the Industry Applications Society (3 years).
- January 1992 IEEE Distinguished Lecturer for the Power Engineering Society (3 years).
- October 1992 Second Prize Paper Award in Electrical Machinery at 1992 IAS Annual Meeting for "A Novel Permanent Magnet Motor with Doubly Salient Structure" with Y. Liao and F. Liang
- October 1993 Third Prize Paper Award in Electrical Machinery at 1993 IAS Annual Meeting for "A Doubly Salient Doubly Excited Variable Reluctance Motor," with Y. Zhao, F. Liang and Hsien-Yuan Li.
- May 1994 IAS Energy Systems Committee Prize Paper Award for 1994 for "Series Compensated PWM Inverter with Battery Supply Applied to an Isolated Induction Generator" with E. Muljadi.
- October 1994 IAS Second Prize Paper Award for Publication in the IAS Transactions mid-year 1993 to mid-year 1994 for "A New Variable Reluctance Motor Utilizing an Auxiliary Commutation Winding," with Feng Liang and Yuefeng Liao.
- October 1995 IAS Second Prize Paper Award for "A New Inverter Control Scheme For Induction Motor Drives Requiring Wide Speed Range" IEEE IAS Annual Meeting, with Mohamed Ossama.
- February 1997 PES Prize Paper Award for Best Paper in the PES Transactions in Electrical Machinery for 1996 for "Analysis of Concentrated Winding Induction Machines for Adjustable Speed Drive Applications - Experimental Results," with H. Toliyat.
- October 1999 IAS First Prize Paper Award for the Best Paper in the IAS Transactions for 1998 for

- “Bearing Currents and Shaft Voltages of an Induction Motor Under Hard and Soft-Switching Inverter Excitation” with S. Chen.
- October 1999 IAS Second Prize Paper Award for “Hybrid Multilevel Power Conversion Systems – A Competitive Solution for High Power Applications,” IAS Annual Meeting, Phoenix AZ, with M. Manjrekar, R. Lund and P. Steimer.
- October 2001 Industrial Power Converter Committee 2nd Prize Paper Award, “Three Phase Buck-Boost Rectifiers with Power Regenerating Capability,” IAS Annual Meeting, with Jun Kikuchi.
- October 2002 Electric Machines Committee 3rd Prize Paper Award, “Dual-rotor, radial-flux, toroidally-wound, permanent magnet machine ,” IAS Annual Meeting, Pittsburg PA, with Ronghai Qu.
- October 2002 Industrial Power Converter Committee 3rd Prize Paper Award, “Reduced Common Mode Carrier-Based Modulation Strategies for Cascaded Multilevel Converters,” IAS Annual Meeting, Pittsburg, PA with P.C. Loh, G. Holmes and Y. Fukata.
- October 2004 Industrial Drives Committee 2nd Prize Paper Award, "Magnet Flux Nulling Control of Interior PM Machine Drives for Improved Response to Short-Circuit Faults" IAS Annual Meeting, Hong Kong China, with B. Welchko and T.M.Jahns.
- October 2007 Industrial Drives Committee 2nd Prize Paper Award, for “Current-Source Topology for Wind Turbines Capable of Providing Leading Power Factor While Reducing Line Current Harmonics,” “P. Tenca, A.A. Rockhill and T.A. Lipo.

Honorary Society Memberships

Tau Beta Pi, Eta Kappa Nu, Pi Mu Epsilon, Sigma Xi

RESEARCH

Publications

A. Books, Book Chapters, Book Forwards, and Video Tutorials

1. T.A. Lipo and D.W. Novotny, "Chapter 4 Variable-Speed Drives and Motor Control," in *Electric Motor Handbook*, B.J. Chalmers ed., Butterworths, London, 1988, pp. 190-277.
2. T.A. Lipo and M.E. Kramer, "Measurement of Induction Motor Torque Pulsations Due to Inverter Supply," in *Vibrations and Audible Noise in Electrical Machines*, Martinus Nijhoff, 1988, pp. 191-211.
3. T.A. Lipo and D.M. Divan, "Resonant Links: A New Family of Converter Topologies for Solid State Power Conversion," in *Power Semiconductor Devices and Circuits*, A.A. Jaecklin ed., Plenum Press, 1993, 370 pp.
4. J.A. Ferreira, "Electromagnetic Modelling of Power Electronic Converters," forward by T.A. Lipo, Kluwer Academic Publishers, 1989.
5. V. Ostovic, "Computer Aided Analysis of Electric Machines," forward by T.A. Lipo, Prentice Hall, New York, 1994.
6. T.A. Lipo, "Induction Motor Control," in Video Course "Adjustable Speed Drives," IEEE Power Eng. Society Video Tutorial, ISBN 0-7803-0384-9, 1993.
7. R.D. Lorenz, D. Novotny and T.A. Lipo, "Motion Control with Induction Motors," In *Power Electronics and Drives*, B.K. Bose Editor, IEEE Press, 1996, pp. 209-276 (Chinese Edition by China University of Mining and Technology Press, 1999).
8. D.W. Novotny and T.A. Lipo, "Dynamics and Vector Control of AC Drives, Oxford Press, 1996, 440 pp.
9. T.A. Lipo, "Introduction to AC Machine Design - Vol. 1," University of Wisconsin-WisPERC, 1996, 344 pp (4th printing 2000).
10. T.A. Lipo, "Advanced Motor Topologies: Converter Fed Machines (CFMs)," Chapter in *Energy Efficiency Improvements in Electric Motors and Drives*, A. de Almeida, P. Bertolde and W. Leonhard Editors, Springer, 1997.
11. T.A. Lipo, "Electric Machine Analysis and Simulation," Entry in *Encyclopedia of Electrical Engineering*, J. Wiley, 1999.
12. T.A. Lipo, "Converter Topologies," in *Modern Electric Drives*, Kluwer Publishers, 2000, 792 pp.
13. D. Grahame Holmes and T.A. Lipo, "Pulse Width Modulation for Power Converters Principles and Practice," John Wiley, 2003, 734 pp.
14. T.A. Lipo and K. Jezernik, "AC Motor Speed Control" in *Electric Machinery Handbook*, H. Toliyat and G.B. Kliman Ed. 2004.
15. T.A. Lipo, "Introduction to AC Machine Design," University of Wisconsin Power Electronics Research Center, 2003, 633 pp.
16. S. Huang, M. Aydin and T.A. Lipo, "Assessment and Optimization of Radial and Axial Flux Surface Mounted Permanent Magnet Machines" in *Jubilee – Power Electrical Engineering*, EdP Sciences, Paris.
17. T.A. Lipo, "Analysis of Synchronous Machines," CRC Press, Taylor and Francis Group, Boca Raton FL, 573 pp.
18. D.W. Novotny, T.A. Lipo and T.M. Jahns, "Introduction to Electrical Machines and Drives," University of Wisconsin Power Electronics Research Center. 2010, 384 pp.
19. B.J. Baliga, "The IGBT Device", Forward by T.A. Lipo, Elsevier Press, 2015.

B. Serial Journal Regular Articles

1. T.A. Lipo and P. C. Krause, "Stability Analysis of a Reluctance-Synchronous Machine," *IEEE Trans. on Power Apparatus and Systems*, Vol. PAS-86, August 1967, pp. 825-834.
2. T.A. Lipo and P. C. Krause, "Stability Analysis for Variable Frequency Operation of Synchronous Machines," *IEEE Trans. on Power Apparatus and Systems*, Vol. PAS-87, No. 1, January 1968, pp. 227-234.

3. T.A. Lipo and P. C. Krause, "Stability Analysis of a Rectifier-Inverter Induction Motor Drive," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-88, No. 1, January 1969, pp. 55-66.
4. T.A. Lipo, P. C. Krause and H. E. Jordan, "Harmonic Torque and Speed Pulsations in a Rectifier-Inverter Induction Motor Drive," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-88, No. 5, May 1969, pp. 579-587.
5. P. C. Krause and T.A. Lipo, "Analysis and Simplified Representations of a Rectifier-Inverter Induction Motor Drive," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-88, May 1969, pp. 588-596.
6. P. C. Krause and T.A. Lipo, "Analysis and Simplified Representations of Rectifier-Inverter Reluctance-Synchronous Motor Drives," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-88, No. 6, June 1969, pp. 962-970.
7. R. H. Nelson, T.A. Lipo, and P. C. Krause, "Stability Analysis of a Symmetrical Induction Machine," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-88, No. 11, Nov. 1969, pp. 1710-1717.
8. T.A. Lipo, "Analog Computer Simulation of a Three-Phase Full-Wave Controlled Rectifier Bridge," Proc. IEEE, Vol. 57, No. 12, December 1969, pp. 2137-2146.
9. T.A. Lipo, "The Analysis of Induction Motors with Voltage Control by Symmetrically Triggered Thyristors," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-90, No. 2, March/April 1971, pp. 515-525.
10. T.A. Lipo, and A. B. Plunkett, "A Novel Approach to Induction Motor Transfer Functions," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-93, No. 5, September/October 1974, pp. 1410-1418.
11. P.C. Krause, T.A. Lipo, and D. P. Carroll, "Applications of Analog and Hybrid Computation in Electric Power System Analysis," Proc. IEEE, Vol. 62, No. 7, July 1974, pp. 994-1009. (Invited).
12. T.A. Lipo and F.G. Turnbull, "Analysis and Comparison of Two Types of Square-Wave Inverter Drives," IEEE Trans. on Industry Application, Vol. IA-11, No. 2, March/April 1975, p. 137-147.
13. T.A. Lipo and E.P. Cornell, "State-Variable Steady-State Analysis of a Controlled Current Induction Motor Drive," IEEE Trans. on Industry Applications, Vol. IA-11, No. 6, November/December 1975, pp. 704-712.
14. A.B. Plunkett and T.A. Lipo, "New Methods of Induction Motor Torque Regulation," IEEE Trans. on Industry Applications, Vol. IA-12, No. 1, January/February 1976, pp. 47-55.
15. E.P. Cornell and T.A. Lipo, "Modeling and Design of Controlled Current Induction Motor Drive Systems," IEEE Trans. on Industry Applications, Vol. IA-13, No. 4, July/August 1977, pp. 321-330.
16. C.M. Ong and T.A. Lipo, "Steady-State Analysis of a Current Source Inverter-Reluctance Motor Drive, Part I Analysis," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-96, No. 4, July/August 1977, pp. 1145-1151.
17. C.M. Ong and T.A. Lipo, "Steady-State Analysis of a Current Source Inverter-Reluctance Motor Drive, Part II, Experimental and Analytical Results," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-96, No. 4, July/August 1977, pp. 1152-1155.
18. R.J. Kerkman, P.C. Krause and T.A. Lipo, "Simulation of a Synchronous Machine with an Open Phase," Electric Machines and Electromechanics, Vol. 1, No. 3, April-June 1977, pp. 245-254.
19. S.S. Kalsi and T.A. Lipo, "A Modal Approach to the Transient Analysis of Synchronous Machines," Electric Machines and Electromechanics, Vol. 1, No. 4, July-September 1977, pp. 337-354.
20. T.A. Lipo, "Flux Sensing and Control of Static AC Drives by the Use of Flux Coils," IEEE Trans. on Magnetics, Vol. MAG-13, No. 5, September 1977, pp. 1403-1408.
21. T.A. Lipo, "Performance Calculations of a Reluctance Motor Drive by dq Harmonic Balance," IEEE Trans. on Industry Applications, Vol. IA-15, January/February 1979, pp. 25-35.
22. T.A. Lipo and T.A. Nondahl, "Pole-by-Pole d-q Axis Model of a Linear Induction Machine," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-98, No. 2, March/April 1979, pp. 629-642.
23. T.A. Lipo, "Analysis and Control of Torque Pulsations in Current Fed Induction Motor Drives," Electric Machines and Electromechanics, Vol. 3, April-June 1979, pp. 357-368.
24. T.A. Nondahl and T.A. Lipo, "Transient Analysis of a Linear Induction Machine Using the d-q Pole-by-Pole Model," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-98, No. 4, July/August 1979, pp. 1366-1374.

25. T.A. Lipo, "Simulation of a Current Source Induction Motor Drive," IEEE Trans. on Industrial Electronics and Control Instrumentation, Vol. IECI-26, May 1979, pp. 98-103.
26. R.L. Steigerwald and T.A. Lipo, "Analysis of a Novel Forced-Commutation Starting Scheme for a Load-Commutated Synchronous Motor Drive," IEEE Trans. Industry Applications, Vol. IA-15, January/February 1979, pp. 14-24.
27. A.B. Plunkett, J. D. D'Atre and T.A. Lipo, "Synchronous Control of a Static AC Induction Motor Drive," IEEE Trans. Industry Applications, Vol. IA-15, No. 4, July/August 1979, pp. 430-437.
28. B.K. Bose and T.A. Lipo, "Control and Simulation of a Current-Fed Linear Inductor Machine," IEEE Trans. Industry Applications, Vol. IA-15, No. 6, November/December 1979, pp. 591-600.
29. R. J. Kerkman, T.A. Lipo, W. G. Newman, J. E. Thirkell, "An Inquiry into Adjustable Speed Operation of a Pumped Hydro Plant, Part I -Machine Design and Performance," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-99, No. 5, November/December 1980, pp. 1828-1 837.
30. R.J. Kerkman, T.A. Lipo, W. G. Newman, and J. E. Thirkell, "An Inquiry into Adjustable Speed Operation of a Pumped Hydro Plant, Part II - System Analysis," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-99, No. 5, November/December 1980, pp. 1838-1844.
31. E.L. Owen, H. D. Snively, and T.A. Lipo, "Torsional Coordination of High Speed Synchronous Motors - Part II," IEEE Trans. on Industry Applications, Vol. IA-1 7, November/December 1981, pp. 572-5 80.
32. A. Consoli and T.A. Lipo, "Orthogonal Axis Models for Asymmetrically Connected Induction Machines," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-1 01, December 1982, pp. 4518-4526.
33. T.A. Lipo and L.H. Walker, "Design and Control Techniques for Extending High Frequency Operation of a CSI Induction Motor Drive," IEEE Trans. on Industry Applications, Vol. IA-19, September/October 1983, pp. 744-753.
34. T.A. Lipo, "Hybrid Computer Simulation of an ASCII Current Source Inverter," Electric Machines and Power Systems, Vol. 8, No. 1, January-February, 1983, pp. 1-14.
35. T.A. Lipo and A. Consoli, "Modeling and Simulation of Induction Motors with Saturable Leakage Reactances," IEEE Trans. on Industry Applications, Vol. IA-20, No. 1, Jan./Feb. 1984, pp. 180-189.
36. T.A. Lipo and F.X. Wang, "Design and Performance of a Converter Optimized AC Machine," IEEE Trans. on Industry Applications, Vol. IA-20, No. 4, July/August 1984, pp. 834-844.
37. Y. K. He and T.A. Lipo, "Computer Simulation of an Induction Machine with Spatially Dependent Saturation," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-103, No. 4, April 1984, pp. 707-714.
38. F. X. Wang and T.A. Lipo, "Analysis and Steady-State Behavior of an Optimized AC Converter Machine," IEEE Trans. on Power Apparatus and Systems, Vol. PAS-102, No. 8, August 1983, pp. 2734-2742.
39. T. M. Rowan and T.A. Lipo, "A Quantitative Analysis of Induction Motor Performance by SCR Voltage Control," IEEE Trans. on Industry Applications, Vol. IA-19, No. 4, July/August 1983, pp. 545-553.
40. Y. K. He and T.A. Lipo, "Saturation Effects in the Stability Analysis of a VSI Induction Motor Drive, "Trans. of Electrical Engineers (Japan), Vol. 103, No. 11/12, Nov./Dec. 1983, pp. 117-124.
41. B. Sneyers, D. W. Novotny and T.A. Lipo, "Field Weakening in Buried Permanent Magnet AC Motor Drives," IEEE Trans. on Industry Applications, Vol. IA-21, No. 2, March/April 1985, 398-407.
42. E. Muljadi, R. Schiferl, and T.A. Lipo, "Induction Machine Phase Balancing by Unsymmetrical Thyristor Voltage Control," IEEE Trans. on Industry Applications, Vol. IA-21, No.3, May/June 1985, pp. 669-679.
43. T. Matsuo and T.A. Lipo, "A Rotor Parameter Identification Scheme for Vector Controlled Induction Motor Drives," IEEE Trans. on Industry Applications, Vol. IA-21, No. 3, May/June 1985, pp. 624-632.
44. D. Kirschen, D. W. Novotny and T.A. Lipo, "On-Line Efficiency Optimization of a Variable Frequency Induction Motor Drive," IEEE Trans. on Industry Applications, Vol. IA-21, No. 3, May/June 1985, pp. 610- 616.
45. R. S. Colby, T.A. Lipo and D. W. Novotny, "A State-Space Analysis of LCI Fed Synchronous Motor Drives in the Steady State," IEEE Trans. on Industry Applications, Vol. IA-21, No. 4, July/August 1985, pp. 1016- 1022.

46. T.A. Lipo and K.C. Chang, "A New Approach to Flux and Torque Sensing in Induction Machines," IEEE Trans. on Industry Applications, Vol. IA-22, No. 4, July/August 1986, pp. 731-737.
47. D. Deng and T.A. Lipo, "A Modified Control Method for Fast Response Current Source Inverter Drives," IEEE Trans. on Industry Applications, Vol. IA-22, No.4, July/August 1986, pp. 653-665.
48. W.H. Creer, D.W. Novotny, T.A. Lipo, "Determination of Equivalent Circuits for Induction Machines with Skin Effect Using Terminal Characteristics," Electric Machines and Power Systems, Vol. 10, No. 4-5, 1985, pp. 379-394.
49. J. D. Law and T.A. Lipo, "A Single Phase Induction Motor Voltage Controller with Improved Performance," IEEE Trans. on Power Electronics, Vol. PE-1, No. 4, Oct. 1986, pp. 240-247.
50. T.M. Rowan, R.J. Kerkman and T.A. Lipo, "Operation of Naturally Sampled Current Regulators in the Transition Region," IEEE Trans. on Industry Applications, Vol. IA-23, No. 4, July/August 1987, pp. 586- 596.
51. P.K. Sood and T.A. Lipo, "Power Conversion Distribution System Using a Resonant High-Frequency AC Link," IEEE Trans. on Industry Applications, Vol. 24, Mar/Apr. No. 2, 1988, pp. 288-300.
52. C.-G. Wang, D.W. Novotny and T.A. Lipo, "An Automated Rotor Time Constant Measurement System for Indirect Field Oriented Drives," IEEE Transactions on Industry Applications, Vol. 24, Jan/Feb 1988, pp. 15 1-159.
53. T.A. Lipo, "Recent Progress in the Development of Solid State AC Motor Drives," IEEE Trans. on Power Electronics, Vol. 3, No. 2, April 1988, pp. 105-117.
54. T.A. Lipo, "The Potential for High Temperature Superconducting AC and DC Motors," Electric Machines and Power Systems, Vol. 13, 1988, pp. 373-385.
55. P. Sood, T.A. Lipo and I. Hansen, "A Versatile Power Converter for High Frequency Link Systems," IEEE Trans. on Power Electronics, Vol. 3, No. 4, Oct. 1988, pp. 383-390.
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