

PUBLICATIONS

Book Chapters

J.C. Gomez and M.M. Morcos, *Power Quality: Mitigation Technologies in a Distributed Environment*, Chapter 10, Springer-Verlag, London, A.M. Munoz, Editor, pp. 293-314, 2007.

EPRI Report

M.M. Morcos, A.J. Heber, J.A. Mowry. *Steady-State Speed Controller for Single-Phase Capacitor Motors*. Electric Power Research Institute, EPRI Report TR-100174, 1992.

Papers in IEEE Transactions

S. Zhang, M.M. Morcos, K.D. Srivastava, "On the management of metallic particle contamination in gas insulated switchgear," *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol. 24, No. 5, pp. 2746-2754, 2017.

S.D. Kim, M.M. Morcos, "An application of dynamic thermal line rating control system to up-rate the ampacity of overhead transmission lines," *IEEE Transactions on Power Delivery*, Vol. 28, No. 2, pp. 1231-1232, 2013.

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- M.A. Awadallah and M.M. Morcos, "ANFIS-based diagnosis and location of stator in-turn faults in PM brushless DC motors," *IEEE Transactions on Energy Conversion*, Vol. 19, No. 4, pp. 795-796, 2004.
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- M.A. Awadallah and M.M. Morcos, "Adaptive fuzzy-based stator-winding fault diagnosis of PM brushless DC motor drive by monitoring supply current," *IEEE Power Engineering Review*, Vol. 22, No. 12, pp. 46-49, 2002.
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- M.M. Morcos and J.C. Gomez, "Flicker sources and mitigation," *IEEE Power Engineering Review*, Vol. 22, No. 11, pp. 5-10, 2002.
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M.M. Morcos and W.R. Ibrahim, "Electric power quality and artificial intelligence: Overview and applicability," *IEEE Power Engineering Review*, Vol. 19, No. 6, pp. 5-10, 1999.

TEACHING

Courses taught at Kansas State University (1986 – 2017)

ECE 510	Circuit Theory I
ECE 511	Circuit Theory II
ECE 525	Electronics I
ECE 530	Control Systems Design
ECE 581	Energy Conversion
ECE 589	Circuits and Machines Lab
ECE 590	Senior Seminar
ECE 624	Power Electronics
ECE 780	Power Seminar
ECE 824	Advanced Power Electronics
ECE 882	Power Quality
ET 537	Electronic Measurements
ET 542	Electric Motors and Controls

SHORT COURSES

M.M. Morcos and J.C. Gomez, Impact of Power Electronics on Electric Power Quality, Olathe, KS, 2001.

M.M. Morcos and J.C. Gomez, Power Electronics and Power Quality – A Strong Connection, Graz, Austria, 2001.

M.M. Morcos, Power Quality Considerations for Adjustable Speed Drives, Manhattan, KS, 1998.

M.M. Morcos, N.G. Dillman, G.L. Johnson, Power Electronics, Manhattan, KS, 1994.

PERSONAL DATA

A native of Cairo, Egypt, Dr. Morcos was born on October 19, 1944. He married Sharon K. Hearne on June 17, 1989.