

## LIST OF PAPERS OF PROF. GIAN CARLO MONTANARI

Published in major National and International Journals and Conferences

- 1 - "Resonance overvoltages at the connection of capacitors for power factor compensation" (in Italian, with M. Loggini), L'ENERGIA ELETTRICA, pp. 66-71, February 1981.
- 2 - "Significance and importance of the electric strength measurement after aging under combined stresses" (in Italian), L'ENERGIA ELETTRICA, pp. 232-236, June 1981.
- 3 - "A method for the study on harmonic current compensation in low voltage plants" (in Italian, with M. Loggini, R. Miglio), L'ENERGIA ELETTRICA, pp. 243-254, June 1982.
- 4 - "The electric strength measurement for aging evaluation in multiple stress tests" (with G. Pattini, L. Simoni), IEEE INTERNATIONAL SYMPOSIUM on ELECTRICAL INSULATION, pp. 9-12, Philadelphia, June 1982.
- 5 - "Parameters of a failure probability distribution for a dielectric material subjected to electrical and thermal stresses" (in Italian, with M. Cacciari), L'ENERGIA ELETTRICA, pp. 206-210, May 1983.
- 6 - "Comparison between two probability functions in the statistical analysis of aging test data of electrical insulating materials" (with M. Cacciari), MATERIALS SCIENCE, Vol. IX, n.3, Wroclaw, Poland, 1983.
- 7 - "Application of a new method to the analysis of combined-stress tests results" (with G. Pattini), FOURTH INTERNATIONAL SYMPOSIUM on HIGH VOLTAGE ENGINEERING, paper 23.02, Athen, September 1983.
- 8 - "Contribution to the analysis of thermal life tests" (in Italian, with G. Pattini), L'ENERGIA ELETTRICA, pp. 353-360, September 1983.
- 9 - "On the compensation of reactive power of low-voltage static-power converters" (in Italian, with M. Loggini, M. Cacciari), L'ENERGIA ELETTRICA, pp. 19-27, January 1984.
- 10 - "Voltage endurance of XLPE insulated cable models" (with G. Pattini, L. Simoni), IEEE INTERNATIONAL SYMPOSIUM on ELECTRICAL INSULATION, pp. 55-58, Montreal, Canada, June 1984.
- 11 - "Evaluation of thermal and electrical aging of an insulating composite material by dielectric and microstructural investigation" (with F. Sandrolini, A. Motori, S. Masoni, G. Pattini, L. Simoni), IEEE INTERNATIONAL SYMPOSIUM on ELECTRICAL INSULATION, pp. 280-283, Montreal, Canada, June 1984.
- 12 - "A filter design for reactive power compensation in low voltage systems" (with M. Loggini, M. Cacciari), IEEE INTERNATIONAL CONFERENCE on HARMONICS in POWER SYSTEMS, pp. 167-173, Worcester, USA, October 1984.
- 13 - "Statistical methods for aging-time censored tests on insulating materials" (in Italian, with M. Cacciari) L'ENERGIA ELETTRICA, pp. 519-524, December 1984.
- 14 - "A probabilistic insulation life model for combined thermal-electrical stresses" (with M. Cacciari), IEEE TRANSACTIONS on ELECTRICAL INSULATION, Vol. EI-20, n.3, pp. 519-522, June 1985.
- 15 - "Investigation on the combined-stress behavior of XLPE insulated cables" (with G. Pattini, L. Simoni), INTERNATIONAL CONFERENCE on PROPERTIES and APPLICATIONS of DIELECTRIC MATERIALS, pp. 709-712, Xian, China, June 1985.
- 16 - "Electrical and microstructural investigations on aging of an insulating composite material subjected to combined stresses" (with S. Masoni, A. Motori, G. Pattini, F. Sandrolini, L. Simoni), INTERNATIONAL CONFERENCE on PROPERTIES and APPLICATIONS of DIELECTRIC MATERIALS, pp. 303-306, Xian, China, June 1985.
- 17 - "An approximate method to calculate parameters, percentiles and confidence bounds for a Weibull function valid for progressively-censored tests" (in Italian, with M. Cacciari), METRON, Vol. XLIII, n.1-2, pp. 67-84, June 1985.

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- 20 - "Compatibility limits between electrical network and AC/DC converter in presence of a protection reactance" (in Italian, with M.Loggini, M.Cacciari), L'ENERGIA ELETTRICA, pp. 357-365, October 1985.
- 21 - "Study of contribution of harmonic filters to the reduction of voltage distortion" (in Italian, with M.Loggini, R.Belli), L'ENERGIA ELETTRICA, pp. 366-373, October 1985.
- 22 - "Thermal endurance evaluation of insulating materials: a theoretical and experimental analysis" (with G.Pattini), IEEE TRANSACTIONS ON ELECTRICAL INSULATION, Vol.EI-21, n.1, pp. 69-77, February 1986.
- 23 - "Insulating material endurance to electrical and thermal stresses, separately or simultaneously applied" (in Italian, with L.Simoni, G.Pattini, M.Cacciari), L'ENERGIA ELETTRICA, pp. 66-80, February 1986.
- 24 - "On the estimation of life of power apparatus insulation under combined electrical and thermal stress", Discussion (with L. Simoni), IEEE TRANSACTIONS ON ELECTRICAL INSULATION, Vol.EI-21, n.2, pp. 239-240, April 1986.
- 25 - "A contribution to the investigation of aging mechanisms in XLPE cables" (with A.Motori, F.Sandrolini, L.Gherardi), IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL INSULATION, Washington D.C., USA, June 1986.
- 26 - "Harmonic compensation in low-voltage electrical plants" (with M.Loggini e R.Belli), 2nd INTERNATIONAL CONFERENCE ON HARMONICS IN POWER SYSTEMS, pp. 297-301, Winnipeg, Canada, October 1986.
- 27 - "Voltage-distortion compensation in electrical plants supplying static power converters" (with M.Loggini), I&CPS Technical Conference, 103-110, Cleveland, USA, May 1986, "Committee Prize Paper Award" from IEEE Industry Application Society, published in IEEE TRANSACTIONS ON INDUSTRY APPLICATION, vol.IA-23, n.1, pp. 181-188, February 1987.
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- 29 - "A method to estimate the Weibull parameters for progressively censored tests" (with M.Cacciari), IEEE TRANSACTIONS ON RELIABILITY, vol.R-36, n.1, pp. 87-93, April 1987.
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- 33 - "Electrical life models of insulating materials" (in Italian), L'ENERGIA ELETTRICA, n.1, pp. 35-43, January 1988.
- 34 - "Electrical Endurance of EPR insulated cables" (with G. Pattini, L.Simoni), invited paper, IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL INSULATION, pp. 196-199, Boston, 5-8 June 1988.
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- 41 - "Filters and protection reactance for distortion compensation in low voltage plants" (with M.Loggini), IEEE Industry Application Society Annual Meeting, pp. 1488-1494, Pittsburgh, October 1988
- 42 - "Correlation of Arrhenius parameters: the Electro-technical Aging Compensation Effect", Discussion with P. K. David, IEEE TRANSACTIONS on ELECTRICAL INSULATION, Vol. EI-23, n.6, pp. 1057-1063, December 1988.
- 43 - "A generalized breakdown probability function for insulations with exponential life model" (in Italian, with M. Cacciari), METRON, Vol.XLVI, n.1-4, pp. 253-273, December 1988.
- 44 - "A probabilistic life model for insulating materials showing electrical threshold" (with M.Cacciari), IEEE TRANSACTIONS on ELECTRICAL INSULATION, Vol. EI-24, n. 1, pp. 127-134, February 1989.
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- 46 - "Statistical models for electrical aging of solid insulating materials" (in Italian, with M.Cacciari), STATISTICA, year XLIX, n.1, pp. 73-81, March 1989.
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- 61 - "Evaluacion de filtros de armonicas de corriente" (with M. Loggini), CONCAPAN, Panama, pp. 1-12, November 1990.
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- 69 - "Metodologias para el control de las armonicas en sistemas de potencia" (with M. Loggini, D. Perez), IEEE RVP'91, pp. 144-151, Cabo, Mexico, July 1991.
- 70 - "Life models for PET films subjected to multiple thermal-electrical stresses" (with S.M. Gubanski), 7th INTERNATIONAL SYMPOSIUM ON HIGH VOLTAGE ENGINEERING, Dresda, Germany, pp. 156-158, August 1991.
- 71 - "Harmonic evaluation in electrical plants supplying 6-pulse ac/dc converters" (with A. Cavallini, M. Loggini), 4th EUROPEAN CONFERENCE on POWER ELECTRONICS and APPLICATION, Florence, Italy, pp. 231-236, September 1991.
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- 94 - "General criteria for the stochastic sum of measured harmonics at plant busses" (with M. Cacciari, A. Cavallini, M. Loggini), IEEE INDUSTRY APPLICATION SOCIETY ANNUAL MEETING, 1351-1359, Houston, USA, 4-9 October 1992.
- 95 - "Considerations on the compatibility conditions of the Eyring model applied for multiple stresses" (with G. Mazzanti, L. Simoni), IEEE CONFERENCE ON ELECTRICAL INSULATION AND DIELECTRIC PHENOMENA, 771-777, Victoria, USA, 19-21 October 1992.
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- 101 - "Statistical approach for determining breakdown voltage of gas-insulated cables" (with M. Cacciari), Discussion with F. Yildirim, C. Korasli, IEEE TRANSACTIONS ON ELECTRICAL INSULATIONS, Vol. 28, n. 5, 887-888, October 1993.
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- 103 - "Diagnosis of practical insulation systems by partial discharge measurements in the presence of multi-discharge phenomena" (with M. Cacciari, A. Contin, G. Rabach), IEEE CONFERENCE ON ELECTRICAL INSULATION AND DIELECTRIC PHENOMENA, 414-419, Pocono, USA, 17-20 October 1993.
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- 118 - "Evaluation of harmonic levels in electrical networks by statistical indexes" (with M. Cacciari, A. Cavallini, M. Loggini), IEEE Industry Application Annual Meeting, 1586-1593, Toronto, Canada, 4-9 ottobre 1993, published in IEEE TRANSACTIONS ON INDUSTRY APPLICATION, Vol. IA-30, n. 4, 1116-1126, August 1994.
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