

Referencias

- [1] ABRAMOWITZ, M. , STEGUN, I. A. "Handbook of Mathematical Functions". Dover Publications, Inc. 1972.
- [2] ANSI/IEEE Std. 80-1986 "IEEE Guide for Safety in AC Substation Grounding" Wiley Interscience 1986.
- [3] ARLON, A.; BRADLEY, S., et all "Near Fields of Wire Antennas by Matrix Methods" IEEE Transactions on Antenas and Propagation, Vol. AP-21, No. 5, Sep. 1973, pp.
- [4] ARMSTRONG H., SIMPKIN L. "Grounding Electrode Potential Gradients from Model Test". AIEE, Transactions on Power Apparatus and Systems, Vol. PAS-50, Oct. 1960, pp. 618-623.
- [5] BAISHIKI R., KENT C., DAWALIBI F. "Earth Resustivity Measurements Using Cilindrical Electrodes at Short Spacings". IEEE Transactions on Power Delivery, Vol. PWRD-2, No. 1, January 1987
- [6] BELLASCHI P. "Impulse and 60-Cycle Characteristics of Driven Grounds, Part I" AIEE Transactions, Vol. 60, pp.123-128, March 1941.
- [7] BEYER W. "CRC Standart Mathematical Tables" CRC Press, Inc. 25th Edition. 1979.
- [8] BEWLEY L. "Travelling Waves in Transmission Systems". John Wiley & Sons, Inc. New York 1951.
- [9] BLATTNER C. "Prediction of Soil Resistivity and Ground Rod Resistance for Deep Ground Electrodes". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 5, Sep-Oct 1980, pp.1758-1763.
- [10] BLATTNER C. "Study of Driven Rods and Four Point Soil Resistivity Test". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-101, No. 8, Aug. 1982, pp.2837-2850.
- [11] BLATTNER C. "Analysis of Soil Resistivity Methods in Two-Layer Earth". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-104, No. 12, Dec. 1985, pp.3603-3608.
- [12] BOLD G. "A Comparison of the Time Involved in Computing Fast Hartley and Fast Fourier Transforms" Proceedings of the IEEE, Vol. 73, No.12, Dec. 1985, pp.1863-1864
- [13] BRACEWELL R. "The Fast Hartley Transform". Proceeding of the IEEE, Vol. 72, No.8, Aug. 1984, pp.1010-1018

- [14] BRAMELLER A. "State Estimation". Power Systems Engineering Department. University of Manchester Institute of Science & Technology. England 1985.
- [15] BRIGHAM E. "The Fast Fourier Transform and its Applications". Prentice-Hall International, Inc., New York 1989
- [16] BRONSHTEIN I., SEMENDIAEV K. "Manual de Matemáticas para Ingenieros y Estudiantes" Editorial MIR - MOSCU. 3a. Edición 1977.
- [17] BURDEN R., FAIRES J. "Análisis Numérico" Grupo Editorial Iberoamérica. Mexico, 1985.
- [18] CALDECOTT R., KASTEN D. "Scale Model of Station Grounding Grids". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-102, No. 3, Mar. 1983, pp. 558-566.
- [19] COCHRAN W., et al. "What is the Fast Fourier Transform?" Proceedings of the IEEE, Vol. 55, No. 10, Oct. 1967
- [20] DAWALIBI F., BARBEITO N. "Measurements and Computations of the Performance of Grounding Systems Buried in Multilayer Soils" IEEE 91 WM 037-2 PWRD. 1991 New York Winter Meeting.
- [21] DAWALIBI F., BLATTNER C. "Earth Resistivity Measurement Interpretation Techniques". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 2, February 1984, pp. 374-382
- [22] DAWALIBI F., BOUCHARD M., MUKHEDKAR D. "Survey on Power System Grounding Design Practices". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 4, Jul/Aug 1980, pp. 1396-1405.
- [23] DAWALIBI F., MUKHEDKAR D. "Optimum Design of Substation Grounding in a Two Layer Earth Structure. Part I: Analytical Study". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-94, No. 2, Mar/Apr. 1975, pp. 252-261.
- [24] DAWALIBI F., MUKHEDKAR D. "Optimum Design of Substation Grounding in a Two Layer Earth Structure. Part II: Comparison Between Theoretical and Experimental Results". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-94, No. 2, Mar/Apr. 1975, pp. 262-266.
- [25] DAWALIBI F., MUKHEDKAR D. "Optimum Design of Substation Grounding in a Two Layer Earth Structure. Part III: Study of Grounding Grids Performance and New Electrodes Configuration". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-94, No. 2, Mar/Apr. 1975, pp. 267-272.
- [26] DAWALIBI F., MUKHEDKAR D. "Transferred Earth Potential in Power Systems". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-97, No. 1, Jan/Feb. 1978, pp. 90-101.

- [27] DAWALIBI F., MUKHEDKAR D. "Parametric Analysis of Grounding Grids". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-98, No. 5, Sep/Oct. 1979, pp. 1659-1668.
- [28] D'ALIER RESEARCH GROUP "Eight Years of Lightning Experiments at Saint-Privat-d'Allier" CIGRE REG - 9/82, Sep. 1982, pp. 561- 582.
- [29] DEL ALAMO, J.L., "Estimación Óptima de los Parámetros definitorios de un Terreno Multiestratificados para la Puesta a Tierra de un Sistema Eléctrico". Ed. Depto de Ingeniería Eléctrica ETSII. Universidad de Valladolid. España. Jul. 1992
- [30] DEL ALAMO, J.L. "A Comparison among Eight Different Techniques to achieve an Optimum Parameters in Two-Layered Earth." IEEE Winter Meeting, 93 WM 079 - 4 PWRD. Columbus 1993.
- [31] DEVGAN S., WHITEHEAD E. "Analytical Models for Distributed Grounding Systems". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-92, No. 5, Sep/Oct. 1973, pp.1763-1770.
- [32] DOMMEL H. "Digital Computer Solution of Electromagnetic Transient in Single and Multiphase Networks". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-88, No. 4, Apr.1969, pp.388-399.
- [33] DVORAC, S. "Application of the Fast Fourier Transform to the Computation of the Sommerfeld Integral for a Vertical Electric Dipole above a Half-Space" IEEE Transactions on Antenas and Propagation. pp 798-805. Vol. 40, N° 7, July 1992.
- [34] DWIGHT H. "Tables of Integrals and other Mathematical Data" The Macmillan Company. New York 1949.
- [35] EWY K., SMOLLECK H. "A Grafical Explanation of the Resistance and Surface-Potential Calculation for Grounding Systems in Two-Layer Earth". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 3, Mar. 1984, pp.631-639.
- [36] FLETCHER R. "Practical Methods of Optimization" John Wiley & Sons. Second Edition 1987. Reprinted 1989.
- [37] GEAR, C.W., "Numerical Initial Value Problems in Ordinary Differential Equations". Prentice-Hall, Englewood Cliffs. New Jersey 1971.
- [38] GIAO T., SARMA M. "Effect of a Two-Layer Earth on the Electric Field Near HVDC Ground Electrodes". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-91, No. 6, Nov./Dec. 1972, pp.2356-2365.
- [39] GUPTA B., THAPAR B. "Impulse Impedance of Grounding Grids".IEEE Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 6, Nov./Dec.1980, pp.2357-2362.
- [40] GRCEV L. "Calculation of the Transient Impedance of Grounding Sysatems" D. Sc., thesis (Serbo-Croata), University of Zagreb. Yugoslavia 1986.

- [41] GRCEV L., HAZNADAR Z., "A Novel Technique of Numerical Modelling of Impulse Current Distribution in Grounding Systems". 19th International Conference on Lightning Protection (ICLP, 1988), Graz, Austria.
- [42] GRCEV L., DAWALIBI F. "An Electromagnetic Model for Transients in Grounding Systems". 1990 Winter Meeting, Atlanta, Georgia, Feb., No. 90 WM 130-5 PWRD.
- [43] GRCEV L., "Numerical Analysis of the Transient Voltage Near Grounding Systems". 21st International Conference on Lightning Protection (ICLP, 1992), pp.105-110. Graz, Austria.
- [44] GRCEV L., "Computation of the Lightning Current Distribution Along Tubes in Frequency Domain". 21st International Conference on Lightning Protection (ICLP, 1992), pp.207-211. Graz, Austria.
- [45] HARRINGTON R. "Matrix Methods for Field Problems". IEEE Proceedings, Vol. 55, N° 2, Feb. 1967, pp.136-149.
- [46] HARTLEY R. "A More Symmetrical Fourier Analysis Applied to Transmission Problems". Proceeding IRE, Vol. 40, pp. 144-150, Mar. 1942.
- [47] HARRINGTON, L.F. "Field Computation by Moment Methods". Krieger Publishing Company. Malabar, Florida 1968.
- [48] HEPPE R. "Step Potential and Body Currents near Grounds in Two-Layer Earth". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-98, No. 1, Jan/Feb. 1979, pp. 45-59.
- [49] HEPPE R. "Computation of Potential at Surface above an Energized Grid or other Electrode, Allowing for Non-Uniform Current Distribution". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-98, No. 6, Nov./Dec. 1979, pp.1978-1989.
- [50] IMSL Library. "IMSL Reference Manual". Houston, Texas 1984
- [51] IZZEDDINE I., M. "Estudio Comparativo del Comportamiento de Modelos del Subsuelo de Doble Capa y Multiestrato". Escuela Técnica Superior de Ingenieros Industriales de Madrid. Universidad Politécnica de Madrid. Trabajo de grado, España 1990.
- [52] JOHNSON C. "Engineering Electromagnetic Fields & Waves". Wiley International Edition, 1975.
- [53] JOHNSON W., DUDLEY D. "Real Axis Integration of Sommerfeld Integrals: Source and Observation Points in Air". American Geophysical Union 1983.
- [54] JOY E., WILSON R. "Accuracy Study of the Ground Grid Analysis Algorithm". IEEE, Transactions on Power Delivery, Vol. PWRD-1, No. 3, Jul. 1986, pp. 97-103.

- [55] JOY E., PAIK N., BREWER T., WILSON R. WEBB R., MELIOPOULOS A. "Graphical Data for Ground Grid Analysis". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-102, No. 9, Sep. 1983, pp. 3038-3048.
- [56] KAMEYAMA F., ALTAFIM, R. "Earthing Electrodes Modelling for Impulse Current". Sixth International Synposium on High Voltage Engineering, Mississippi State University, New Orleans, LA, USA, Aug. 28 - Sep. 1, 1989
- [57] KING, R.W.; OWENS, M.; WU, T.T. "Lateral Electromagnetic Waves" Springer-Verlag, 1992
- [58] KINYON A., "Earth Resistivity Measurements for Grounding Grids" AIEE. Transactions on Power Apparatus and Systems, PAS-57, Dec. 1961., pp. 795-800.
- [59] KOSZTALUK R., LOBODA M., MUKHEDKAR D. "Experimental Study of Transient Ground Impedances" IEEE Transactions on Power Apparatus and Systems, Vol. PAS-100, No. 11, Nov. 1981
- [60] LAGACE P.J., HOULE J.L., GERVAIS Y., MUKHEDKAR D. "Evaluation of the Voltage Distribution around Toroidal HVDC Ground Electrodes in N-Layer Soil". IEEE Transactions on Power Delivery, Vol. PWRD-3, No. 4, October 1988, pp.1573-1579.
- [61] LEE R. "Grounding of Computers and Other Similar Sensitive Equipment". IEEE Transactions on Industry Applications, Vol. IA-23, No. 3, May/June 1987, pp. 408-411.
- [62] LEWIS W., "Recommended Power and Signal Grounding for Control and Computer Rooms". IEEE Transactions on Industry Applications, Vol. IA-21, No. 6, Nov./Dec. 1985, pp. 408-411.
- [63] LIEW A., DARVENIZA M. "Dynamic Model of Impulse Characteristics of Concentrated Earths" Proc. IEE, Vol. 121, No. 2, Feb. 1974.
- [64] LOBODA M., KOSZTALUK R. "Model Tests of Surge Properties of Grounding Systems in Lightning Protection". 16th. International Conference on Lightning Protection. Szeged 1981. R-5.03
- [65] LOBODA M., POCHANKE Z. "Experimental Study of Electric Properties of Soil with Impulse Current Injections" 18th International Conference on Lightning Protection. Munich 1981. 3.9
- [66] LOPERA, W. "Análisis de los Sistemas de Puesta a Tierra en Terreno Biestratificado en Régimen Permanente". Pasantía de grado, Universidad Simón Bolívar, Caracas-Venezuela. Diciembre 1991
- [67] LOPEZ, S. "Subestación Eléctrica de Transformación de Calamocha. Aspectos Relativos a la Instalación de Puesta a Tierra". Proyecto Fin de Carrera. Escuela Técnica Superior de Ingenieros Industriales. Universidad de Zaragoza. Septiembre de 1986

- [68] LOPEZ, S. ; IZZEDDINE, M. ; ALLER, J.M. "Análisis en Régimen Transitorio de Redes de Puesta a Tierra". Congreso CIER. Volumen Comité España. Viña del Mar, Chile, Septiembre 1991
- [69] LYTLE, R.J. , LAGER, D.L. "Numerical Evaluation of Sommerfeld Integrals". Report UCRL 51688, Lawrence Livermore Laboratory, 1974.
- [70] MAGGIOLI V. "Grounding and Computer Technology". IEEE Transactions on Industry Applications, Vol. IA-23, No. 3, May/June 1987., pp.412-416.
- [71] MAXWELL J. "A Treatise on Electricity and Magnetism. Vol 1". Unabridged Third Edition. Dover Publications, Inc. New York 1954
- [72] MAXWELL J. "A Treatise on Electricity and Magnetism. Vol 2". Unabridged Third Edition. Dover Publications, Inc. New York 1954
- [73] MAZZETTI C., VECA G. "Impulse Behavior of Ground Electrodes". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-102, No. 9, Sep.1983, pp.3148-3156.
- [74] MELIOPOULOS A. "Power System Grounding and Transient". Marcel Dekker, Inc. 1988.
- [75] MELIOPOULOS A.P.S., DUNLAP J. "Investigation of Grounding Related Problems in AC/DC Converter Stations". IEEE Transactions on Power Delivery, Vol. PWRD-3, No. 2, April 1988, pp.558-567.
- [76] MELIOPOULOS A., MOHARAM M. "Transient Analysis of Grounding Systems". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-102, No. 2, Feb.1983, pp.389-399.
- [77] MELIOPOULOS A., PAPAEXOPOULOS A., WEBB R., BLATTNER C. "Estimation of Soil Parameters from Driven Rod Measurements". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 9, Sep. 1984, pp.2579-2587.
- [78] MELIOPOULOS A., PAPAEXOPOULOS A. "Interpretation of Soil Resistivity Measurements: Experience with the Model SOMIP". IEEE Transactions on Power Delivery, Vol. PWRD-1, No. 4, Oct. 1986, pp.142-151.
- [79] MELIOPOULOS A., WEBB R., JOY E. "Analysis of Grounding Systems". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-100, No. 3, Mar. 1981, pp. 1039-1048.
- [80] MENTER, F., CHI, H., MÖLER, K. "Lightning Protection of Urban Transportation systems" Proc. 20 th ICLP, Ref. 7.4, Interlaken 1990.
- [81] MICHALSKI K. "On the Efficient Evaluation of Integrals Arising in the Sommerfeld Halfspace Problem". IEE Proceedings 1985, No. 3965H (E11).

- [82] MILLER E., POGGIO A., BURKE G., SELDEN E. "Analysis of Wire Antennas in the Presence of a Conducting Half-Space. Part I. The Vertical Antenna in Free Space". Canadian Journal of Physics, Vol. 50, pp. 879-888, 1972
- [83] MILLER E., POGGIO A., BURKE G., SELDEN E. "Analysis of Wire Antennas in the Presence of a Conducting Half-Space. Part II. The Horizontal Antenna in Free Space". Canadian Journal of Physics, Vol. 50, pp. 2614-2627, 1972
- [84] MOON P., SPENCER D.E. "Field Theory Handbook". Second Edition. Springer-Verlag. Berlin. Heidelberg. New York 1971
- [85] MUKHEDKAR D., GERVAIS Y., DEJEAN J. "Modelling of a Grounding Electrode". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-92, No. 1, Jan/Feb. 1973, pp. 295-297.
- [86] MUÑOZ C., M. "Estructuras Ohmicas Multiestratificadas Semi-infinitas. Estimacion Optima a partir de Medidas realizadas en su Contorno". Tesis Doctoral. Universidad de Valladolid. Escuela Tecnica Superior de Ingenieros Industriales. Dpto. de Ingeniería Eléctrica. Valladolid, España. Marzo 1993.
- [87] NAGAR R., VELAZQUEZ R., LOELOEIAN M., MUKHEDKAR D., GERVAIS Y. "Review of Analytical Methods for Calculating the Performance of Large Grounding Electrodes. Part I: Theoretical Considerations". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-104, No. 11, Nov. 1985, pp. 3124-3133.
- [88] NAHMAN J., SALAMON D. "A Practical Method for the Interpretation of Earth Resistivity Data Obtained from Driven Rod Tests". IEEE Transactions on Power Delivery, Vol. PWRD-3 , No. 4, Oct. 1988, pp.1375-1379.
- [89] NAHMAN J., SKULETICH S. "Irregularity Correction Factors for Mesh and Step Voltages of Grounding Grids". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 1, Jan/Feb. 1980, pp. 174-180.
- [90] NILES G., et al. "Background and Methodology for Analyzing Step and Touch Potentials near Transmission Structures. Part I Background". IEEE, Transactions on Power Delivery, Vol. PWRD-1 , No. 2, Apr. 1986, pp.150-157.
- [91] NILES G., et al. "Background and Methodology for Analyzing Step and Touch Potentials near Transmission Structures. Part II Engineering Evaluation". IEEE, Transactions on Power Delivery, Vol. PWRD-1 , No. 2, Apr. 1986, pp.158-162.
- [92] PAIVA P. "Métodos Computacionales Aplicados a Sistemas de Potencia". Universidad Simón Bolívar. Departamento de Conversión y Transporte de Energía. Sección Sistemas de Potencia. Sartenejas, 1981.
- [93] PAPAEXOPOULOS A. "Modeling Techniques for Power System Grounding Systems" Ph.D. Dissertation, Georgia Institute of Technology, Aug. 1985.

- [94] PAPALEXOPOULOS A., MELIOPOULOS A. "Frequency Dependent Characteristics of Grounding Systems". IEEE Transactions on Power Delivery, Vol. PWRD-2, No. 4, Oct.1987, pp.1073-1081.
- [95] PETIAU, G. "La Théorie des Fonctions de Bessel". Centre National de la Recherche Scientifique. Paris 1955.
- [96] PIPES L., HARVILL L. "Applied Mathematics for Engineers and Physicist" Third Edition. Mc. Graw - Hill, Inc. 1970
- [97] RAMAMORTY M., NARAYANAN M., PARAMESWARAN S., MUKHEDKAR D. "Transient Performance of Grounding Grids" IEEE - Winter Meeting 1989, No. 89 WM 068-8 PWRD. New York, Feb. 1989.
- [98] RAO S. "Optimization Theory and Applications" Wiley Eastern Limited, 1984.
- [99] "Reglamento sobre Condiciones Técnicas y Garantías de Seguridad en Centrales Eléctricas, Subestaciones y Centros de Transformación e Instrucciones Técnicas Complementarias" Ministerio de Industria y Energía. España 1985.
- [100] ROGERS E. "Impedance Characteristics of Large Tower Footings to a 100 ms Wide Square Wave of Current" IEEE Transactions on Power Apparatus and Systems PAS-100, N° 1. Jan. 1981.
- [101] RÜDEMBERG R. "Grounding Principles and Practice, Part I: Fundamental Considerations on Ground Circuits". Electrical Engineering. Vol. 64, No. 1, pp. 1-13. Jan. 1945
- [102] SATO S., ZAENGL W.. "Effective Grounding Mesh Calculation Technique". IEEE, Transactions on Power Delivery, Vol. PWRD-3, No. 1, Jan. 1988, pp. 173-182.
- [103] SCOTT W., DOMMEL H. "Numerical Modelling of Frequency-Dependent Transmission Parameters in an Electromagnetic Transient Program". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-93, pp.1401-1409. 1974.
- [104] SEEDHER H., AROA J., THAPAR B. "Finite Expressions for Computation of Potential in Two Layer Soil". IEEE, Transactions on Power Delivery, Vol. PWRD-2, No. 4, Oct. 1987, pp. 1098-1102.
- [105] STAGG. EI- AVIAT "Computer Methods for Power System Analysis" Wiley Interscience, New York 1970.
- [106] STEFANESCO S., SCHLUMBERGER C. & M. "Sur la Distribution Electrique Potentielle Autour d'une Prise de Terre Ponctuelle dans un Terrain a Couches Horizontales Homogenes et Isotropes". Journal de Physique et Radium, Vol. 1, Serie VII, No. 4, 1930, pp. 132-140.
- [107] SUNDE, E.D. "Earth Conduction Effects in Transmission Systems". Dover Publications, Inc., New York 1968.

- [108] SVERAK J. "Simplified Analysis of Electrical Gradients above a Ground Grid - I: How Good is The Present IEEE Method?". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 1, Jan. 1984, pp. 7-25.
- [109] SVERAK J., BENSON R., DICK W., DODDS T., et al. "Safe Substation Grounding - Part II". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-101, No. 10, Sep. 1982, pp. 4281-4290.
- [110] SVERAK J., DICK W., DODDS T., HEPPE R. "Safe Substation Grounding - Part I". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-100, No. 9, Sep. 1981, pp. 4281-4290.
- [111] TAKAHASHI, T., KAWASE, T. "Analysis of Apparent Resistivity in a Multi-Layer Earth Structure". IEEE Transactions on Power Delivery. Vol. PWRD-5, No. 2, April 1990. pp. 604-612.
- [112] TAKAHASHI, T., KAWASE, T. "Calculation of Earth Resistance for a Deep-Driven Rod in a Multi-Layer Earth Structure". IEEE Transactions on Power Delivery. Vol. PWRD-6, No. 2, April 1991. pp. 608-614.
- [113] THAPAR B., GOYAL S.L. "Scale Model of Station Grounding Grids In Non-Uniform Soils". IEEE, Transactions on Power Delivery, Vol. PWRD-2, No. 4, Oct. 1987, pp.1060-1066.
- [114] THAPAR B., GROSS E. "Grounding Grids for High Voltage Station-IV". IEEE Transactions on Power Apparatus and Systems, PAS-68, Oct. 1963. pp. 782-788.
- [115] THAPAR B., PURI K. "Mesh Potential in High-Voltage Grounding Grids" IEEE, Transactions on Power Apparatus and Systems, PAS-86, Feb. 1967, pp.249-254.
- [116] VELAZQUEZ R., REYNOLDS P., MUKHEDKAR D. "Earth-Return Mutual Coupling Effects in Ground Resistance Measurements of Extended Grids". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-102, No. 6, June. 1983, pp.1850-1857.
- [117] VELAZQUEZ R., MUKHEDKAR D. "Analytical Modelling of Grounding Electrodes Transient Behavior". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 6, Jun.1984, pp.1314-1322.
- [118] VERMA R., MUKHEDKAR D. "Impulse Impedance of Buried Ground Wires". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 5, Sep./Oct. 1980, pp.2003-2007.
- [119] VERMA R., MUKHEDKAR D. "Fundamental Considerations and Impulse Impedance of Ground Grids". IEEE Transactions on Power Apparatus and Systems, Vol. PAS-100, No. 3, March. 1981, pp.1023-1030.

- [120] VILLEGAS A., PEREZ J. "Retorno por Tierra: Una Alternativa en Electrificación Rural". XXXV Convención Nacional de ASOVAC. Noviembre 1985. Merida-Venezuela.
- [121] WANG W., VELAZQUEZ R., MUKHEDKAR D., GERVAIS Y. "A Practical Probabilistic Method to Evaluate Tolerable Step and Touch Voltages". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 12, Dec. 1984, pp. 3522-3530.
- [122] WENNER F., "A Method of Measuring Resistivity". National Bureau of Standards. Scientific Paper 12, No. S-258, 1916, p.499
- [123] ZUKERMAN L. "Simplified Analysis of Rectangular Grounding Grids". IEEE, Transactions on Power Apparatus and Systems, Vol. PAS-98, No. 5, Sep/Oct. 1979, pp. 1777-1785.