

АКАДЕМИК ЛЕОНИД ГРЧЕВ

СПИСОК НА ТРУДОВИ

(1980-2017)

I. МОНОГРАФИИ

- [1] F. Menter, **L. Grcev**, "EMTP-based model for grounding systems analysis," in *Computer Analysis of Electric Power System Transients: Selected Readings*, Juan A. Martinez-Velasco, Ed., New York: IEEE Press, 1997, pp. 461-472.
- [2] **L. Grcev (co-author)**, "Guide on Electromagnetic Compatibility", in *Power Plants and Substations*, Technical Brochure No. 124, CIGRÉ, Paris, France, Dec. 1997.
- [3] H. Yamashita, I. Marinova, **L. Grcev (edited by)**, "*Applied Electromagnetics*", Heron Press, Sofia, Bulgaria, 2000, (ISBN: 954-580-78-X).
- [4] K. Yamada, A. Krawczyk, H. Tsuboi, I. Vajda, T. Honma, A. Gottvald, J. Slama, H. Yamashita, I. Marinova and **L. Grcev (edited by)**, "*Applied Electromagnetics, Material Science and Devices*", JSAEM Studies in Applied Electromagnetic and Mechanics, Vol. 13, Sapporo, Japan: The Japan Society of Applied Electromagnetics and Mechanics, 2002, (ISBN 4-931455-11-5).
- [5] **L. Grcev**, Chapter 8 "Earthing Systems" in *Protection of MV and LV Networks against Lightning: Part I Common Topics*, Technical Brochure No. 287, CIGRÉ, Paris, France, Feb. 2006.
- [6] **L. Grcev**, "High frequency grounding", in *Lightning Protection*, Ed. V. Cooray. London, UK: IET, 2009, pp. 503-527.
- [7] V. Arnautovski-Toseva, **L. Grcev**, K. El Khamichi Drissi, "Comparison of exact and image formulation of the electric field due to Hertz dipole in two-layer soil", in *Computer field models of electromagnetic devices*, Eds. S. Wiak, E. Napieralska-Juszczak, Amsterdam, NL: IOS Press, 2010, pp. 609-617 (Studies in Applied Electromagnetics and Mechanics, Vol. 34).
- [8] **L. Grcev (co-author)**, *Protection of Medium Voltage and Low Voltage Networks against Lightning: Part 2: Lightning Protection of Medium Voltage Networks*, Technical Brochure No. 441, CIGRÉ, Paris, France, Dec. 2010.

II. СТАТИИ ВО СПИСАНИЈА

- [9] **L. Grcev**, "A possibility of computing more accurately the influence of the power transmission on telecommunication lines," *Elektroprivreda*, Beograd, Vol. 33, No. 1-2, 1980, pp.30-34.
- [10] **L. Grcev**, "Calculation of the electrical parameters of overhead lines by means of a digital computer," *Elektrotehnika*, Zagreb, Vol. 27, No. 6, 1984, pp. 385-392.
- [11] **L. Grcev**, "A new approach to the numerical modeling of grounding systems impulse characteristics," *Elektrotehnika*, Zagreb, Vol. 29, No. 1-2, 1986, pp. 9-15.
- [12] **L. Grcev**, F. Dawalibi, "An electromagnetic model for transients in grounding systems," *IEEE Transactions on Power Delivery*, vol. 5, no. 4, pp. 1773-1781, October 1990.
- [13] F. Menter, **L. Grcev**, "EMTP-based model for grounding systems analysis," *IEEE Transactions on Power Delivery*, vol. 9, no. 4, pp. 1838-1849, October 1994.
- [14] **L. Grcev**, F. Menter, "Transient electromagnetic fields near large earthing systems," *IEEE Transactions on Magnetics*, vol. 32, no. 3, pp. 1525-1528, May 1996.
- [15] **L. Grcev**, "Computer analysis of transient voltages in large grounding systems," *IEEE Transaction on Power Delivery*, vol. 11, no. 2, pp. 815-823, April 1996.
- [16] **L. Grcev**, M. Heimbach, "Frequency dependent and transient characteristics of substation grounding systems," *IEEE Transaction on Power Delivery*, vol. 12, no. 1, pp. 172-178, January 1997.
- [17] M. Heimbach, **L. Grcev**, "Grounding system analysis in transients programs applying electromagnetic field approach," *IEEE Transaction on Power Delivery*, vol. 12, no. 1, pp. 186-193, January 1997.
- [18] **L. Grcev (co-author)**, "Electromagnetic compatibility in power plants and substations," *Electra*, No. 175, pp. 108-111, December 1997.

- [19] В. Димчев, Б. Ханџиски, **Л. Грчев**, “Мерења и пресметки на електричното и магнетното поле околу високонапонски водови”, Зборник на трудови, Електротехнички факултет Скопје, год. 18, бр. 1-2, 1998.
- [20] М. Каџарска, **Л. Грчев**, “Влијанието на магнетното и електричното поле врз здравјето на луѓето”, Зборник на трудови, Електротехнички факултет Скопје, год. 21, бр. 1-2, 2001, стр. 1-10.
- [21] **L. Grcev**, F. Rachidi, “On tower impedances for transient studies”, *IEEE Transactions on Power Delivery*, vol. 19, no. 3, pp. 1238-1244, July 2004.
- [22] V. Arnautovski-Toseva, **L. Grcev**, “Electromagnetic analysis of horizontal wire in two-layered soil”, *Journal of Computational and Applied Mathematics*, vol. 168, pp. 21–29, July 2004.
- [23] **L. Grcev**, M. Popov, “On high-frequency circuit equivalents of a vertical ground rod”, *IEEE Transactions on Power Delivery*, vol. 20, no. 2, pp. 1598-1603, April 2005
- [24] **L. Grcev**, A. P. J. van Deursen and J. B. M. van Waes, “Lightning current distribution to ground at high voltage tower with radio base station”, *IEEE Transactions on Electromagnetic Compatibility*, vol. 47, no. 1, pp. 160-170, February 2005.
- [25] M. Popov, **L. Grcev**, L. van der Sluis, V. Terzija, “An ATP-EMTP based model for analysis of shielding properties of ferromagnetic cable sheaths”, *IEEE Transactions on Power Delivery*, vol. 20, no. 3, pp. 2241-2247, July 2005.
- [26] V. Arnautovski-Toseva, Y. Rousset, K. El Khamlichi Drissi, **L. Grcev**, “Radiated EMI from power converters”, *Serbian Journal of Electrical Engineering*, Vol. 2, No. 2, pp. 117-124, November 2005.
- [27] **L. Grcev** (co-author), “Protection of MV and LV networks against lightning, Part 1: Common Topics,” *Electra*, No. 224, pp. 47-51, February 2006.
- [28] S. Filiposka, V. Arnautovski-Toseva, **L. Grcev**, “Computation and measurement of low frequency magnetic field near thin-wire structures”, *Facta Universitatis (Nis) Ser.: Elec. Energ*, Vol. 20, No. 1, March 2007, 1-8
- [29] V. Arnautovski-Toseva, K. El Khamlichi Drissi, Y. Rousset, **L. Grcev**, “Modelisation d'un convertisseur d'énergie par la methode des antennes”, *Revue Internationale de Génie Électrique*, vol. 11, no. 2-3, Mar.-Jun. 2008, pp. 333-354
- [30] V. Arnautovski-Toseva, K. El Khamlichi Drissi, **L. Grcev**, “Equivalent circuit model of electromagnetic behaviour of wire objects by Matrix Pencil method”, *Serbian Journal of Electrical Engineering*, vol. 5, no. 1, May 2008, pp. 1-10.
- [31] **L. Grcev**, “Impulse efficiency of ground electrodes”, *IEEE Transactions on Power Delivery*, vol. 24, no. 1, pp. 441- 451, January 2009.
- [32] **L. Grcev**, “Modeling of grounding electrodes under lightning currents”, Invited Paper, *IEEE Transactions on Electromagnetic Compatibility*, vol. 51, no. 3, pp. 559-571, Aug. 2009.
- [33] **L. Grcev** and S. Grceva, “On HF circuit models of horizontal grounding electrodes”, *IEEE Transactions on Electromagnetic Compatibility*, vol. 51, no. 3, pp. 873-875, Aug. 2009.
- [34] **L. Grcev**, “Time- and frequency-dependent lightning surge characteristics of grounding electrodes”, *IEEE Transactions on Power Delivery*, vol. 24, no. 4, pp. 2186-2196, October 2009.
- [35] **L. Grcev** and S. Grceva, “Comparison between exact and quasi-static methods for HF analysis of horizontal buried wires”, *IEEE Transactions on Electromagnetic Compatibility*, vol. 51, no. 4, pp. 1051-1054, Nov. 2009.
- [36] V. Arnautovski-Toseva, **L. Grcev**, “Comparison of grounding rod impedance in two-layer soil by image and electromagnetic theory approach”, *Electrotechnica & Electronica*, Vol. 45, No. 1-2, pp. 3-7, 2010.
- [37] **L. Grcev** (co-author), “Protection of medium voltage and low voltage networks against lightning, Part 2: Lightning protection of medium voltage networks”, *Electra*, No. 252, pp. 75-79, December 2010.
- [38] **L. Grcev**, “Lightning surge efficiency of grounding grids,” *IEEE Transactions on Power Delivery*, vol. 26, no. 3, pp. 1692-1699, July 2011.
- [39] V. Arnautovski-Toseva and **L. Grcev**, “Image and exact models of a vertical wire penetrating a two-layered earth,” *IEEE Transactions on Electromagnetic Compatibility*, vol. 53, no. 4, pp. 968-976, Nov. 2011.
- [40] **L. Grcev**, B. Markovski and S. Grceva, “On inductance of buried horizontal bare conductors,” *IEEE Transactions on Electromagnetic Compatibility*, vol. 53, no. 4, pp. 1083-1087, Nov. 2011.
- [41] V. Arnautovski-Toseva, K.E.K. Drissi, K. Kerroum, S. Grceva and **L. Grcev**, “Comparison of image and transmission line models of energized horizontal wire above two-layer soil”, *Automatika*, vol. 53, no. 1, pp. 38-48, January- April 2012
- [42] V. Arnautovski-Toseva, K.E.K. Drissi, K. Kerroum, S. Grceva and **L. Grcev**, “Comparison of image and transmission line models of energized horizontal wire above two-layer soil”, *Automatika*, vol. 53, no. 1, pp. 38-48, January- April 2012.
- [43] Б. Марковски, Љ. Карајановски, **Л. Грчев**, М. Каџарска, “Испитување на нивоа на нискофреквентно магнетно поле во урбани средини од аспект на прописите – 1. дел”, *Енергетика*, Vol. 20, No. 81, стр. 71-76, март 2012, “2. дел”, *Енергетика*, Vol. 20, No. 82, стр. 71-76, мај 2012

- [44] V. Arnautovski-Toseva, **L. Grčev**, M. Kacarska, "Applicability of approximate Green's functions in MPIE model of a horizontal wire conductor in lossy soil", *Przeglad Elektrotechniczny*, Poland, vol. 90, no. 12, pp. 105–108, 2014.
- [45] A. Kuhar, R. Jankoski, L. Ololoska. Gagoska, **L. Grčev**, "Methodological analysis of PEEC and MOM techniques for determination of current along a conductor placed in a conductive medium", *Przeglad Elektrotechniczny*, Poland, vol. 90, no.12, pp. 135–137, 2014.
- [46] A. Kuhar, R. Jankoski, **L. Grčev**, "Transient analysis of a buried conductor using partial element equivalent circuit method", *Przeglad Elektrotechniczny*, Poland, vol. 90, no. 12, pp. 138–140, 2014.
- [47] R. G. Olsen, **L. Grčev**, "Analysis of high frequency grounds: Comparison of theory and experiment", *IEEE Transactions on Industry Applications*, vol. 51, no. 6, pp. 4889-4899, November/December 2015.
- [48] M. Popov, **L. Grčev**, H. K.. Høidalen, B. Gustavsen, V. Terzija, "Investigation of the overvoltage and fast transient phenomena on transformer terminals by taking into account the grounding effects", *IEEE Transactions on Industry Applications*, vol. 51, no. 6, pp. 5218-5227, November/December 2015.
- [49] A. Kuhar, R. Jankoski, V. Arnautovski-Tosheva, L. Ololoska-Gagoska, **L. Grčev**, "Transient current distribution analysis along a conductor excited by a pulse source using partial element equivalent circuit method", *Przeglad Elektrotechniczny*, Poland, vol. 91, no. 6, pp 69-72, 2015.
- [50] B. Markovski, **L. Grčev**, V. Arnautovski-Toseva, M. Kacarska, "Transient performance of interconnected wind turbine grounding systems," *Przeglad Elektrotechniczny*, vol. 91, no. 6, pp. 72-75, 2015.
- [51] **Л. Грчев**, "Библиографија на академик Љупчо Коцарев : (по повод неговиот 60. роденден)", Прилози. Одделение за технички науки (МАНУ) = Contributions. Section of Technical Sciences (MASA), том XXXVI, бр. 1-2, стр. [11]-28, 2015.
- [52] V. Arnautovski-Toseva and **L. Grčev**, "On the image model of a buried horizontal wire," *IEEE Transactions on Electromagnetic Compatibility*, vol. 58, no. 1, pp. 278-28, Feb. 2016.
- [53] A. Kuhar, **L. Grčev**, "Contribution to calculating the impedance of grounding electrodes using circuit equivalents," *Facta Universitatis. Series, Electronics and Energetics*, vol. 29, no. 4, pp. 721–732, Dec. 2016.
- [54] V. Arnautovska Toševa, **L. Grčev**, K. El Khamlichi Drissi, "Analysys of plane wave coupling to multi-conductor line above lossy soil", *Journal of electrical engineering and information technologies*, vol. 2, no. 1, pp. [5]-14, 2017.
- [55] A. Kuhar, V. Arnautovski-Toševa, **L. Grčev**, "High frequency enhancement of the hybrid electromagnetic model by implementing complex images", *Journal of electrical engineering and information technologies*, vol. 2, no. 1, pp. [79]-87, 2017.
- [56] B. Markovski, **L. Grčev**, "Analysis of electromagnetic influence on steel pipelines from the elements of electric power system", *Journal of electrical engineering and information technologies*, vol. 2, no. 1, pp. [89]-96, 2017.

III. СТАТИИ ВО ЗБОРНИЦИ ОД КОНФЕРЕНЦИИ

- [57] **L. Grčev**, "Electromagnetic influence of electric power lines to metallic supporting wire network in nearby vineyards," the 15th Yugoslav National CIGRÉ Committee Conference, Paper 36-02, Beograd, Yugoslavia, 1981.
- [58] **L. Grčev**, "Electric field near metallic transmission line tower," 3rd CAD/CAM Scientific Meeting, Stubicke Toplice, Croatia, 1981, pp. 541-552.
- [59] **Л. Грчев**, „Поточно пресметување на електрични параметри на надземни водови“, Зборник на трудови на Првата тематска научно-стручна конференција на Македонија за ЕТАИ, стр. 100-112, Охрид, 21-23 октомври 1982
- [60] **L. Grčev**, "Calculation of the mutual inductance per unit length between power and telecommunication lines by digital computer," 26th Yugoslav Conference ETAN, Subotica, Yugoslavia, 1982, pp. II.229-236.
- [61] **L. Grčev**, "Ground Modeling in the Calculations of the Electrical Parameters of Overhead Lines by Means of a Digital Computer," 4th CAD/CAM Scientific Meeting, Stubicke Toplice, Croatia, 1982, pp. 5-10.
- [62] **L. Grčev**, "Electric field in near vicinity of metallic lattice transmission line towers," (in Serbo-Croatian), the 16th Yugoslav National CIGRÉ Committee Conference, Paper 36-01, Opatija, Croatia, 1983.
- [63] N. Pocajt, J. Gajica, **L. Grčev**, "Electromagnetic fields due to propagation of high-frequency currents in m-phase high voltage line," 27th Yugoslav Conference ETAN, Struga, Macedonia, 1983, pp. III.341-347.

- [64] **L. Grčev**, "Computation of the mutual impedance between power and telecommunication lines above multilayer soil," *5th CAD/CAM Scientific Meeting*, Stubicke Toplice, Croatia, 1983, pp. 405-410.
- [65] **L. Grčev**, "Dynamic behavior of center-fed wire in homogeneous conducting medium," *6th CAD/CAM Scientific Meeting*, Zagreb, Croatia, 1984, pp. 269-274.
- [66] **L. Grčev**, "A new approach to the calculation of transient impedance of grounding systems," *7th CAD/CAM Scientific Meeting*, Zagreb, Croatia, 1985, pp. 376-384.
- [67] **L. Grčev**, "Application of Furrier transform in the calculation of the transient impedance of grounding systems," *8th CAD/CAM Scientific Meeting*, Zagreb, Croatia, 1986, pp. 459-464.
- [68] **L. Grcev**, Z. Haznadar "Numerical modeling of grounding systems transient behavior," *8th International Symposium CAD/CAM*, pp. 339-343, Zagreb, Croatia, 1986.
- [69] **L. Grcev**, Z. Haznadar, "A novel technique of numerical modelling of impulse current distribution in grounding systems," *Proceedings of the International Conference on Lightning Protection (ICLP'88)*, Paper 3.4, pp. 165-169, Graz, Austria, 1988.
- [70] **L. Grčev**, "Computation of the transient electromagnetic field near grounding electrodes," *the 19th Yugoslav National CIGRÉ Committee Conference*, Paper 36-07, Bled, Slovenia, 1989.
- [71] **L. Grčev**, "New method for computation of grounding systems impedance," *the 19th Yugoslav National CIGRÉ Committee Conference*, Paper 36-07, Bled, Slovenia, 1989.
- [72] **L. Grcev**, F. Dawalibi, "An electromagnetic model for transients in grounding systems," *IEEE/PES 1990 Winter Meeting*, Atlanta, USA, January 1990.
- [73] **L. Grcev**, "Frequency dependent analysis of electric field distribution of grounding systems," *Proceedings of the International Symposium on High Voltage Engineering (ISH'91)*, Vol. 8, Paper 83.15, pp. 155-158, Dresden, Germany, 1991.
- [74] **L. Grcev**, "Transient electric field at points near grounding systems," *Proceedings of the Japan- Hungary Seminar on Applied Electromagnetics in Materials*, pp. 29-32, Budapest, Hungary, 1991
- [75] **L. Grcev**, "Computation of transient voltages near complex grounding systems caused by lightning currents," *Proceedings of the IEEE International Symposium on Electromagnetic Compatibility*, pp. 393-400, Anaheim, California, USA, 1992.
- [76] **L. Grcev**, "Numerical analysis of the transient voltages near grounding systems," *Proceedings of the International Conference on Lightning Protection (ICLP'92)*, Paper 3.04, pp. 105-110, Berlin, Germany, 1992
- [77] **L. Grcev**, "Computation of the lightning current distribution along metal tubes in frequency domain," *Proceedings of the International Conference on Lightning Protection (ICLP'92)*, Paper 4.10, pp. 207-211, Berlin, Germany, 1992
- [78] **L. Grcev**, "Near fields of lossy thin-wire structures in lossy half-space," *Proceedings of the International Symposium on Electromagnetic Fields in Electrical Engineering (ISEF'93)*, pp. 281-284, Warsaw, Poland, September 1993.
- [79] **L. Grcev**, "Comparison of three computer models for evaluation of transients in thin-wire structures in soil," *Proceedings of the 9th Conference on the Computation of Electromagnetic Fields (COMPUMAG'93)*, Paper PA2-10, pp. 56-57, Miami, U.S.A., 1993.
- [80] **L. Grcev**, D. Hristov, "More accurate modeling of earthing systems transient behavior," in *Proc. of the 15th International Telecommunications Energy Conference (INTELEC'93)*, Vol. 2, pp. 167-173, Paris, France, September 1993.
- [81] **L. Grcev**, V. Arnautovski, "Lightning currents coupling to metal tubes," in *Proc. of the 15th International Telecommunications Energy Conference (INTELEC'93)*, Vol. 2, pp.187-192, Paris, France, September 1993.
- [82] F. Menter, **L. Grcev**, "EMTP-based model for grounding systems analysis," *IEEE/PES 1994 Winter Meeting*, New York, USA, January 1994.
- [83] **L. Grcev**, "Analysis of the possibility of soil breakdown due to lightning in complex and spacious grounding systems," *Proceedings of the International Conference on Lightning Protection (ICLP'94)*, Paper 3a-07, Budapest, Hungary, September 1994.
- [84] **L. Grcev**, V. Arnautovski, "Transient voltages coupling to cables in metal tubes," *Proceedings of the International Conference on Lightning Protection (ICLP'94)*, Paper R5-03, Budapest, Hungary, September 1994.
- [85] **L. Grcev**, V. Dimcev, "More accurate modeling of metallic structures as part of lightning protection systems," *Proceedings of the International Conference on Lightning and Mountains*, pp. 170-175, Chamonix-Mont-Blanc, France, June 1994.

- [86] **L. Grcev**, "Electromagnetic field at points near grounding systems," *International Symposium on Theoretical Electrotechnics*, pp. 153-160, Budapest, Hungary, 1994.
- [87] **L. Grcev**, "Transient performance of substation grounding grids subjected to lightning current impulse," *Proceedings of IEEE Stockholm Power Tech International Symposium on Electric Power Engineering*, Vol. "High Voltage Technology," pp. 216-221, Stockholm, Sweden, June 1995.
- [88] **L. Grcev**, "Computer analysis of transient voltages in large grounding systems," *IEEE Transaction on Power Delivery, IEEE/PES 1995 Summer Meeting*, Portland, USA, July 1995.
- [89] **L. Grcev**, F. Menter, "Transient electromagnetic fields near large earthing systems," *10th Conference on the Computation of Electromagnetic Fields (COMPUMAG'95)*, pp. 182-183, Berlin, Germany, July 1995.
- [90] **L. Grcev**, "Transient performance of substation grounding grids during lightning discharge," *Proceedings of 9th International Symposium on High Voltage Engineering (ISH'95)*, Vol. 6, Paper 6786, pp. 1-4, Graz, Austria, August 1995.
- [91] М. Кацарска и **Л. Грчев**, "Влијание на магнетното поле во животната и работната околина врз здравјето на луѓето", *Прво советување на Македонскиот комитет на СИГРЕ*, Струга, Септември 1996.
- [92] **Л. Грчев**, Б. Спасеновски и М. Богатиновски, "Поточно пресметување на опасно индуктивно влијание на електроенергетски врз телекомуникациони водови", *Прво советување на Македонскиот комитет на СИГРЕ*, Струга, Септември 1996.
- [93] Б. Спасеновски, **Л. Грчев** и М. Богатиновски, "Пречки во телекомуникационите водови поради електромагнетно влијание од високонапонски водови", *Прво советување на Македонскиот комитет на СИГРЕ*, Струга, Септември 1996.
- [94] **Л. Грчев** и В. Филипоски, "Определување на опасно влијание врз телекомуникациони инсталации околу електроенергетски постројки поврзани со повеќе надземни водови", *Прво советување на Македонскиот комитет на СИГРЕ*, Струга, Септември 1996.
- [95] **Л. Грчев** и В. Јанков, "Пресметка на индуцирани напони во подземни метални цевоводи под влијание на струи на куса врска во електроенергетски водови", *Прво советување на Македонскиот комитет на СИГРЕ*, Струга, Септември 1996.
- [96] **L. Grcev**, M. Heimbach, "Frequency dependent and transient characteristics of substation grounding systems," *IEEE/PES 1996 Summer Meeting*, Denver, USA, July 1996.
- [97] M. Heimbach, **L. Grcev**, "Grounding system analysis in transients programs applying electromagnetic field approach," *IEEE/PES 1996 Summer Meeting*, Denver, USA, July 1996.
- [98] **L. Grcev**, "Transient voltages coupling to shielded cables connected to large substations earthing systems due to lightning," *Proceedings of 1996 CIGRE Session – International Conference on Large High Voltage Electric Systems*, (Paper 36-201), Paris, France, August 1996.
- [99] **L. Grcev**, M. Heimbach, "Computer simulation of transient ground potential rise in large earthing systems," in *Proc. of the 23rd International Conference on Lightning Protection (ICLP'96)*, pp. 585-590, Firenze, Italy, September 1996.
- [100] **L. Grcev**, Z. Tasev, L. Kocarev, "Shielding characteristics of hysteretic ferromagnetic tubular shields," in *Proc. of the 23rd International Conference on Lightning Protection (ICLP'96)*, pp. 685-689, Firenze, Italy, September 1996.
- [101] **L. Grcev**, "Electric field distribution and soil breakdown in large earthing systems subjected to lightning discharge," in *Proc. of International Symposium on Electromagnetic Compatibility (EMC'96 ROMA)*, pp. 76-81, Roma, Italy, September 1996.
- [102] **L. Grcev**, V. Filiposki, "Estimation of the zone of influence of earth potential rise on telecommunication installations in urban environment," in *Proc. of International Symposium on Electromagnetic Compatibility (EMC'96 ROMA)*, pp. 862-866, Roma, Italy, September 1996.
- [103] **L. Grcev**, "Transient ground potential rise in large earthing systems," *Proceedings of the 5th International Conference Tesla III Millennium*, pp. III.355-362, Beograd, Yugoslavia, October, 1996.
- [104] **L. Grcev**, V. Arnautovski, "Frequency dependent and transient impedance of grounding systems: comparison between simulation and measurement," *Proceedings of the Second International Symposium: Lightning and Mountains*, pp. 239-244, Chamonix-Mont-Blanc, France, June 1997.
- [105] **L. Grcev**, V. Arnautovski, N. Grcevski, "Software methods for analysis of the efficiency of different grounding arrangements for lightning protection," *Proceedings of the Second International Symposium: Lightning and Mountains*, pp. 235-238, Chamonix-Mont-Blanc, France, June 1997.
- [106] **L. Grcev**, Z. Tasev, L. Kocarev, "Analysis of shielding characteristics of ferromagnetic cable shields in the time domain," *Proceedings of the 12th International Zurich Symposium on Electromagnetic Compatibility EMC Zurich '97*, pp. 257-262, Zurich, Switzerland, February 1997.

- [107] **L. Grcev**, V. Filiposki, "Earth potential distribution around high voltage substations in rural and urban areas," *Proceedings of the 12th International Zurich Symposium on Electromagnetic Compatibility EMC Zurich '97*, pp. 483-488, Zurich, Switzerland, February 1997.
- [108] S. Loskoska, L. Olooska-Gagoska, M. Kacarska, **L. Grcev**, "Visualization of electromagnetic fields influences on humans in virtual kitchen," *Proceedings of the First International Conference on Imaging Science, Systems and Technology (CISST'97)*, pp. 494-497, Las Vegas, USA, June 1997.
- [109] S. Loskoska, M. Kacarska, **L. Grcev**, "VR based CAD system for prototyping electric machines that enable testing their electromagnetic influences to humans," *Proceedings of 4th IFAC Workshop on Intelligent Manufacturing Systems (IMS'97)*, Seoul, Korea, July 1997.
- [110] **L. Grcev**, V. Filiposki, "Zone of influence of ground potential rise on wire-line communication installations in urban areas," *Proceedings of the 1997 IEEE International Symposium on EMC*, pp. 580-585, Austin, Texas, USA, August 1997.
- [111] **L. Grcev**, Z. Tasev, L. Kocarev, "Frequency dependent model of ferromagnetic hysteresis for time domain analysis of cable shields," *Proceedings of the 1997 IEEE International Symposium on EMC*, pp. 586-591, Austin, Texas, USA, August 1997.
- [112] **L. Grcev**, "Analysis of voltages coupled to shielded cables in high-voltage substations in case of lightning," *Proceedings of 10th International Symposium on High Voltage Engineering (ISH'97)*, Montreal, Canada, August 1997.
- [113] M. Heimbach, **L. Grcev**, "Simulation of grounding structures within EMTP," *Proceedings of 10th International Symposium on High Voltage Engineering (ISH'97)*, Montreal, Canada, August 1997.
- [114] Л. Олооска, С. Лошковска, М. Кацарска, **Л. Грчев**, "Прелиминарни мерења на магнетното поле во животна и работна околина на човекот", *Второ советување на МАКО СИГРЕ*, Струга, 1998, Реферат 36-05.
- [115] С. Лошковска, М. Кацарска, Л. Олооска, **Л. Грчев**, "Систем за следење на влијанието на електромагнетното поле врз луѓето", *Второ советување на МАКО СИГРЕ*, Струга, 1998, Реферат 36-04.
- [116] **Л. Грчев**, М. Кацарска, "Еколошки аспекти на електромагнетната компатибилност на електроенергетскиот систем", *Второ советување на МАКО СИГРЕ*, Струга, 1998, Реферат, 37-06.
- [117] **Л. Грчев**, М. Кацарска, "Осврт на современите сознанија за влијанието на магнетното и електричното поле врз здравјето на луѓето", *Второ советување на МАКО СИГРЕ*, Струга, 1998, Реферат 36-02.
- [118] **Л. Грчев**, В. Филипоски, В. Арнаутовски Тошева, Ц. Гавровски, В. Димчев, Ј. Измирлиев, Ј. Ѓориќ, "Определување на зоната на опасно влијание на повисениот потенцијал на тлото околу високонапонски дистрибутивни трафостаници врз телекомуникационите инсталации: моделирање и примена", *Второ советување на МАКО СИГРЕ*, Струга, 1998, Реферат 36-01.
- [119] **L. Grcev**, "Improved earthing system design practices for reduction of transient voltages," *Proceedings of 1998 CIGRÉ Session – International Conference on Large High Voltage Electric Systems*, (Paper 36-302), Paris, France, August 1998.
- [120] **L. Grcev**, V. Arnautovski, "Comparison between simulation and measurement of frequency dependent and transient characteristics of power transmission line grounding," in *Proc. of 24-th International Conference on Lightning protection (ICLP'98)*, Vol. 1, pp. 524-529, Birmingham, U.K., September 1998.
- [121] **L. Grcev**, N. Grcevski, "Software techniques for interactive optimization of complex grounding arrangements for protection against effects of lightning," in *Proceedings of the International Conference on Lightning Protection (ICLP'98)*, Vol. 1, pp. 518-523, Birmingham, U.K., September 1998.
- [122] **L. Grcev**, V. Filiposki and V. Arnautovski, "Computer analysis of the zone of influence of ground potential rise around high-voltage substations in urban areas," *Proc. of the International Conference on Grounding and Earthing (GROUND'98)*, pp. 119-124, Belo Horizonte, Brazil, 1998.
- [123] **L. Grcev**, N. Grcevski, "Software methods for interactive optimization of high frequency and transient performance of complex grounding systems," *Proc. of the International Conference on Grounding and Earthing (GROUND'98)*, pp. 68-73, Belo Horizonte, Brazil, 1998.
- [124] **L. Grcev**, "Improved design of transmission line grounding arrangements for better protection against effects of lightning," *Proceedings of the International Symposium on Electromagnetic Compatibility (EMC'98 ROMA)*, pp. 100-103, Roma, Italy, September 1998.
- [125] **L. Grcev**, V. Filiposki, "Protection of wire-line communication installations in the high-voltage substations zone of influence in urban areas," *Proceedings of the International Symposium on Electromagnetic Compatibility (EMC'98 ROMA)*, pp. 104-107, Roma, Italy, September 1998.

- [126] V. Dimcev, B. Handjiski, C. Gavrovski, **L. Grcev**, "Comparison of electromagnetic fields produced from overhead power transmission lines to distribution lines," Proceedings of the International Symposium on Electromagnetic Compatibility (EMC'98 ROMA), pp. 133-138, Rome, Italy, September 1998.
- [127] B. Popovski, A. Arnautovski, **L. Grcev**, B. Spasenovski, "A closed-form solution of the spectral electric Green's function in anisotropic grounded layer," in *Proc. 8-th Biennial IEEE Conference on Electromagnetic Field Computation (IEEE CEFC'98)*, p. 110, 1-3 June 1998, Tucson, USA.
- [128] M. Kacarska, S. Loskovska, L. Ololoska, **L. Grcev**: "System for monitoring electromagnetic influences on humans near high voltage power lines based on virtual reality," in *Proc. 8-th Biennial IEEE Conference on Electromagnetic Field Computation (IEEE CEFC'98)*, p.57, Tucson, USA, June 1998.
- [129] L. Ololoska-Gagoska, S. Loskovska, M. Kacarska, **L. Grcev**, "Visualization on SAR in a monitoring system for electromagnetic influences on humans in cellular telecommunications," International IEEE Antennas and Propagation Symposium Digest, Vol. 36, pp. 1976 - 1979, Atlanta, USA, June 1998.
- [130] B. Popovski, A. Arnautovski, **L. Grcev**, "Approximated closed-form spatial anisotropic microstrip Green's function," in *Proc. USNC/URSI National Radio Science Meeting*, p. 112, Atlanta, USA, June, 1998.
- [131] M. Kacarska, S. Loskovska, L. Ololoska **L. Grcev**, "Electromagnetic influences monitoring system on humans near power transmission lines based on virtual reality," in *Proc. USNC/URSI National Radio Science Meeting*, p. 191, Atlanta, USA, June, 1998.
- [132] L. Ololoska-Gagoska, S. Loskovska, M. Kacarska, **L. Grcev**, "Virtual reality based system for monitoring electromagnetic influences on humans in cellular telecommunications," in *Proc. USNC/URSI National Radio Science Meeting*, p. 288, Atlanta, USA, June 1998.
- [133] S. Loskovska, M. Kacarska, **L. Grcev**, "Monitoring system for visualization electromagnetic fields influences on humans," in *Proc. IEEE International Conference (MELECON'98)*, pp. 1471-1475, Tel-Aviv, Israel, May 1998.
- [134] S. Loskovska, M. Kacarska, L. Ololoska, **L. Grcev**, "Visualization of EMF on humans in electromagnetic devices prototyping system," in *Proc. IASTED International Conference on Modeling and Simulation*, pp. 219-233, Pittsburgh, USA, May 1998.
- [135] S. Loskovska, L. Ololoska, M. Kacarska, **L. Grcev**, "Virtual reality based system for monitoring electromagnetic influences on humans of hand-held devices in cellular telecommunications," in *Proc. IASTED International Conference Signal Processing and Communications*, Canary Islands, Spain, Feb. 11-14 1988, editor: J. Ruiz-Alzola. Anaheim, Calgary, Zürich: IASTED/Acta Press, 1998, pp. 464-467. (ISBN 0-88986-246-X).
- [136] V. Arnautovski, M. Cundeva, **L. Grcev**, "Computation and measurement of low frequency magnetic field near arbitrary thin-wire structures," 1-st Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'98), pp. 49, Sofia, Bulgaria, September 1998.
- [137] P. Trajkovski, **L. Grcev**, "Analysis of medium voltage XLPE cable terminations by charge simulation method," in *Proc. 2-nd Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'99)*, pp. 5-6, Sapporo, Japan, Nov. 1999.
- [138] N. Grcevski, **L. Grcev**, "Web based interactive interface for power applications using Java," in *Proc. 2-nd Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'99)*, pp. 60-61, Sapporo, Japan, Nov. 1999.
- [139] **L. Grcev**, V. Arnautovski, "Electromagnetic transients in large and complex grounding systems," *3-rd International Conference on Power Systems Transients (IPST'99)*, pp. 341-345, Budapest, Hungary, June 1999.
- [140] M. Kacarska, L. Ololoska-Gagoska, S. Loskovska, **L. Grcev**, "Visualization of induced currents and sar in human's head in cellular telecommunications," *International IEEE Antennas and Propagation Symposium Digest*, Vol. 37, pp. 1012 - 1015, Orlando, Florida, June 1999.
- [141] **L. Grcev**, V. Filiposki, V. Dimcev, C. Gavrovski, V. Arnautovski, "Computation and measurement of electric potentials around high voltage substations," in *Applied Electromagnetics*, editors: H. Yamashita, I. Marinova and **L. Grcev**, Heron Press, Sofia, 2000, pp. 235-240 (*1-st Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'98)*, Sofia, Bulgaria, 14-15 September 1998).
- [142] N. Grcevski, **L. Grcev**, "Interactive graphical interface for transient analysis of grounding systems," *Applied Electromagnetics*, editors: H. Yamashita, I. Marinova and **L. Grcev**, Heron Press, Sofia, 2000, pp. 285-290 (*1-st Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'98)*, Sofia, Bulgaria, 14-15 September 1998).
- [143] S. Loskovska, M. Kacarska, L. Ololoska, **L. Grcev**: "Prototyping system based on virtual reality for minimization of electromagnetic influences on humans," *Applied Electromagnetics*, editors: H. Yamashita, I. Marinova and **L. Grcev**, pp. 219-224, Heron Press, Sofia, 2000 (*1-st Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'98)*, Sofia, Bulgaria, September 1998).
- [144] **L. Grcev**, V. Arnautovski, "Computer simulation of complex and spacious grounding system transient behavior," in *Applied Electromagnetics*, editors: H. Yamashita, I. Marinova and **L. Grcev**, Heron Press, Sofia,

- Bulgaria, 2000, pp. 229-234 (*1-st Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'98)*, Sofia, Bulgaria, September 1998).
- [145] B. Popovski, A. Arnautovski, **L. Grcev**, B. Spasenovski, "Fast numerical discrete complex images solution for the em field radiated by point sources embedded in microstrip structure," in *Applied Electromagnetics*, editors: H. Yamashita, I. Marinova and **L. Grcev**, Heron Press, Sofia, Bulgaria, 2000, pp. 57-62 (*1-st Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'98)*, Sofia, Bulgaria, September 1998).
- [146] B. Popovski, V. Arnautovski, **L. Grcev**, "Electromagnetic plane wave scattering by large and finite strip array on dielectric slab", in *Applied Electromagnetics*, editors: H. Yamashita, I. Marinova and **L. Grcev**, Heron Press, Sofia, Bulgaria, 2000, pp. 63-67 (*1-st Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'98)*, Sofia, Bulgaria, September 1998).
- [147] **L. Grcev**, V. Arnautovski, "Computer model for electromagnetic transients in thin wire structures above, below and penetrating the earth," in *Proc. 5th International Symposium on Electric and Magnetic Fields (EMF'2000)*, Gent, Belgium, 2000.
- [148] **L. Grcev**, "High-frequency performance of ground rods in highly resistive soil," *Proc. of the International Conference on Grounding and Earthing (GROUND'2000)*, pp. 85-89, Belo Horizonte, Brazil, June 2000.
- [149] **L. Grcev**, V. Jankov, V. Filiposki, "Induced voltages in metallic pipelines near power transmission lines", in *Applied Electromagnetics*, editors: V. Cingoski, I. Marinova, and H. Yamashita, JBM'2K, Skopje, 2001, pp. 108-115 (*3-rd Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'2K)*, Ohrid, Macedonia, September 2000).
- [150] V. Arnautovski, A. Smokvarski, B. Popovski, **L. Grcev**, "Discrete complex images in modeling antennas over, below or penetrating the ground", in *Applied Electromagnetics*, editors: V. Cingoski, I. Marinova, and H. Yamashita, JBM'2K, Skopje, 2001, pp. 179-183 (*3-rd Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'2K)*, Ohrid, Macedonia, September 2000).
- [151] **L. Grcev**, V. Arnautovski, "Analysis of electromagnetic transients in thin structures above, below and penetrating the ground", in *Applied Electromagnetics*, editors: V. Cingoski, I. Marinova, and H. Yamashita, JBM'2K, Skopje, 2001, pp. 32-37 (*3-rd Japanese-Bulgarian-Macedonian Joint Seminar on Applied Electromagnetics (JBMSAEM'2K)*, Ohrid, Macedonia, September 2000).
- [152] N. Grcevski, **L. Grcev**, "Web-based interactive interface for grounding systems analysis via Internet," *Proc. of the International Conference on Grounding and Earthing (GROUND'2000)*, pp. 127-129, Belo Horizonte, Brazil, June 2000.
- [153] **Л. Грчев**, В. Арнаутовски-Тошева, "Влијание на електричното и магнетното поле врз луѓето во близина на надземните високонапонски водови: определување на граничните дозволени вредности за полето", *Зто Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2001)*, 3-5 Октомври 2001, Охрид, Реферат 36-01.
- [154] Е. Филипоска, М. Кацарска, **Л. Грчев**, "Електроенергетските водови како извор на електромагнетно поле и здравјето на луѓето", *Зто Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2001)*, 3-5 Октомври 2001, Охрид, Реферат 36-02.
- [155] В. Филипоски, М. Кацарска, **Л. Грчев**, "Електромагнетна компатибилност на уредите за заварување", *Зто Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2001)*, 3-5 Октомври 2001, Охрид, Реферат 36-04.
- [156] Е. Филипоска, В. Филипоски, **Л. Грчев**, "Електромагнетни пречки што се јавуваат во електроенергетскиот систем од стандардни насочувачки влезни кола на потрошувачите", *Зто Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2001)*, 3-5 Октомври 2001, Охрид, Реферат 36-06.
- [157] **L. Grcev**, "Software methods for analysis of transient voltages coupled to shielded cables in HV substations," *Proc. of the 16th International Conference on Electricity Distribution (CIRED'2001)*, Amsterdam, The Netherlands, June 2001, IEE Conference Publication No. 482, Paper 2.2.
- [158] **L. Grcev**, V. Filiposki, V. Arnautovski, "Ground Potential Rise Influence near HV Substations in Urban Areas," *Proc. of the 16th International Conference on Electricity Distribution (CIRED'2001)*, Amsterdam, The Netherlands, June 2001, IEE Conference Publication No. 482, Paper 2.1.
- [159] **L. Grcev**, "Modeling of grounding systems for better protection of communication installations against effects from electric power system and lightning," *Proc. of the International Telecommunications Energy Conference (INTELEC'2001)*, Birmingham, UK, October 2001, IEE Conference Publication No. 484, pp. 461-468.
- [160] V. Arnautovski, **L. Grcev**, "One comparison of exact and quasi-static image model in the analysis of grounding systems," *Proc. of the 16th International Conference on Applied Electromagnetics and communications (ICECom 2001)*, pp. 265-268, Dubrovnik, Croatia, October 2001.

- [161] V. Arnautovski, A. Smokvarski, B. Popovski, **L. Grcev**, "Discrete complex images method in analysis of vertical electric dipole in presence of ground," *Proc. of the 16th International Conference on Applied Electromagnetics and communications (ICECom 2001)*, pp. 261-254, Dubrovnik, Croatia, October 2001.
- [162] V. Arnautovski-Toseva, **L. Grcev**, "Electromagnetic analysis of horizontal wire in two-layered soil," *Proc. of the Second International Conference on Advanced Computational Methods in Engineering (ACOMEN 2002)*, May 28- 31, 2002, Liege, Belgium, Paper EM-01.
- [163] V. Arnautovski-Toseva, **L. Grcev**, "Quasi-static closed-form green's functions for electric dipole bellow ground," *Proc. of Progress in Electromagnetics Research Symposium (PIERS 2002)*, p. 701, Cambridge, Massachusetts, USA, July 2002,.
- [164] **L. Grcev**, J. B. M. van Waes, A. P. J. van Deursen, M. J. M. van Riet and F. Provoost, "Modeling and measurements of grounding effects of distribution cables", *International Conference on Grounding and Earthing (GROUND 2002)*, pp. 311-314, Rio de Janeiro, Brazil, November 4-7, 2002.
- [165] N. Grcevski and **L. Grcev**, "Graphical user interface for 3D modeling of grounding systems", *International Conference on Grounding and Earthing (GROUND 2002)*, pp. 185-188, Rio de Janeiro, Brazil, November 4-7, 2002.
- [166] **L. Grcev**, J. B. M. van Waes, A. P. J. van Deursen, M. J. M. van Riet and F. Provoost, "High frequency current distribution at HV tower with GSM system between earth wires, tower grounding and LV/MV cable network", *17th International Conference on Electricity Distribution (CIRED)*, Barcelona, Spain, 12-15 May 2003, Session 2, Paper No. 20, pp. 1-5.
- [167] **L. Grcev**, A. P. J. van Deursen and J. B. M. van Waes, "Frequency domain analysis of the lightning current distribution to ground at the transmission line tower with cellular phone base station", *2003 IEEE International Symposium on Electromagnetic Compatibility (EMC)*, Istanbul, Turkey, May 11-16, 2003.
- [168] **L. Grcev** and V. Arnautovski-Toseva, "Grounding systems modeling for high frequencies and transients: some fundamental considerations", *IEEE Bologna Power Tech 2003*, Bologna, Italy, June 23-26, 2003.
- [169] **L. Grcev**, A. P. J. van Deursen and J. B. M. van Waes, "Time domain analysis of the lightning current distribution at the HV tower with GSM system", *IEEE Bologna Power Tech 2003*, Bologna, Italy, June 23-26, 2003.
- [170] **L. Grcev**, "Dynamic behavior of grounding systems", *International Zurich Symposium on Electromagnetic Compatibility (EMC Zurich 2003)*, pp. 569-574, Zurich, Switzerland, February 18-20, 2003.
- [171] V. Arnautovski-Toseva and **L. Grcev**, "High frequency current distribution in horizontal grounding systems in two-layer soil", *2003 IEEE International Symposium on Electromagnetic Compatibility (EMC)*, Istanbul, Turkey, May 11-16, 2003.
- [172] V. Arnautovski-Toseva and **L. Grcev**, "Theoretical aspects of high frequency analysis of horizontal grounding systems in two-layer soil", *2003 IEEE International Symposium on Electromagnetic Compatibility (EMC)*, Istanbul, Turkey, May 11-16, 2003.
- [173] **L. Grcev**, F. Rachidi and V. Rakov, "Comparison of electromagnetic models of lightning return strokes using current and voltage sources", *Proc. 12th International Conference on Atmospheric Electricity*, pp. 593-596, Versailles, France, June 9-13, 2003.
- [174] V. Arnautovski-Toseva and **L. Grcev**, "A comparison of exact and image model for HF analysis of horizontal grounding conductors in two-layer soil", *Proc. 6-th International Conference on Applied Electromagnetics (PES03)*, pp. 5-8, Nis, Serbia and Montenegro, June 2003.
- [175] В. Филипоски, С. Филипоска, **Л. Грчев**, „Јачина на магнетното поле околу уредите за заварување“, *4то Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2004)*, 26-29 Септември 2004, Охрид, стр. С3-01 1-9
- [176] В. Филипоски, **Л. Грчев**, „Процена на влијание на ТС 400/110 kV "Скопје 5" врз човековата околина“, *4то Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2004)*, 26-29 Септември 2004, Охрид, стр. С3-02 1-8
- [177] **L. Grcev**, V. Filiposki, V. Arnautovski-Toseva, „Определување на влијание на 400 kV далекувод "Дуброво - Штип - Македонско-Бугарска граница врз луѓето во неговата околина“, *4то Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2004)*, 26-29 Септември 2004, Охрид, стр. С3-03 1-6
- [178] **L. Grcev**, A. P. J. van Deursen, "High frequency grounding performance of metal sheathed distribution cables", *Proc. CIGRE Session 2004*, Paper C4-306, pp. 1-8, Paris, France, August 2004.
- [179] V. Arnautovski-Toseva, **L. Grcev**, K. El Khamichi Drissi, "Calculation of the harmonic impedance of a single horizontal grounding wire in two-layer soil by the electromagnetic model", *Proc. International Symposium on Electromagnetic Compatibility (EMC Europe 2004)*, pp. 887-892, Eindhoven, The Netherlands, September 2004.

- [180] X. Li, K. El Khamichi Drissi, **L. Grcev**, F. Paladian, "Efficient electromagnetic modeling of insulated wires in the presence of a lossy half-space", Proc. International Symposium on Electromagnetic Compatibility (EMC Europe 2004), pp. 24-27, Eindhoven, The Netherlands, September 2004.
- [181] **L. Grcev**, A. P. J. van Deursen, "Lightning current distribution to ground at HV tower with mobile phone base station", Proc. International Conference on Lightning Protection (ICLP 2004), pp. 474-479, Avignon, France, September, 2004.
- [182] Y. Rousset, V. Arnautovski-Toseva, C. Pasquier, K. El Khamlich Drissi, **L. Grcev**, "Analyse dans le domaine fréquentiel du champ électrique émis par un convertisseur d'énergie par la méthode des moments", Telecom'2005 et 4èmes JFMMA, pp. 281-284, 23-25 Mars 2005, Rabat, Maroc.
- [183] V. Arnautovski-Toseva, **L. Grcev**, "Transient analysis of grounding grids in two-layer soil", 7-th International Conference on Applied Electromagnetics (PES05), pp. 137-138, Nis, Serbia and Montenegro, May 2005.
- [184] V. Arnautovski-Toseva, Y. Rousset, K. El Khamlich Drissi, **L. Grcev**, "Radiated EMI from power converters", 7-th International Conference on Applied Electromagnetics (PES05) , pp. 135-136, Nis, Serbia and Montenegro, May 2005.
- [185] V. Arnautovski-Toseva, V. Filiposki, **L. Grcev**, "Computation and measurement of low and high frequency magnetic field near thin-wire structures", 7-th International Conference on Applied Electromagnetics PES05, pp. 35-36, Nis, Serbia and Montenegro, May 2005.
- [186] Y. Rousset, V. Arnautovski-Toseva, P. C. K. Luk, K. El Khamlich Drissi, **L. Grcev**, "Three-dimension method of moments analysis of radiated field from DC-DC converters", 4th International Workshop CPE 2005 Compatibility in Power Electronics, 1-3 June 2005, Gdynia, Poland.
- [187] **L. Grcev**, "HF modeling in the presence of earth", *Proceedings of International PhD-Seminar "Numerical Field Computation and Optimization in Electrical Engineering"*, 20-25 September 2005, Ohrid, Macedonia, pp. 95-106
- [188] M. Angelova, V. Arnautovski-Toseva, **L. Grcev**, "Comparison of exact and image model of grounding systems", *Proceedings of International PhD-Seminar "Numerical Field Computation and Optimization in Electrical Engineering"*, 20-25 September 2005, Ohrid, Macedonia, pp. 5-10
- [189] S. Filiposka, **L. Grcev**, "Time analysis of the current distribution along a tower subjected to a pulse excitation", *Proceedings of International PhD-Seminar "Numerical Field Computation and Optimization in Electrical Engineering"*, 20-25 September 2005, Ohrid, Macedonia, pp. 79-82
- [190] O. Gavriloska, M. Mircev, V. Arnautovski-Toseva, **L. Grcev**, "Approximate image formulation for the fields of a horizontal Hertzian dipole in homogenous soil", *Proceedings of International PhD-Seminar "Numerical Field Computation and Optimization in Electrical Engineering"*, 20-25 September 2005, Ohrid, Macedonia, pp. 89-94
- [191] G. Vladev, V. Arnautovski-Toseva, **L. Grcev**, "Approximate image formulation for electric field of a horizontal Hertzian dipole in two-layer soil", *Proceedings of International PhD-Seminar "Numerical Field Computation and Optimization in Electrical Engineering"*, 20-25 September 2005, Ohrid, Macedonia, pp. 181-186
- [192] E. Zdravevski, V. Arnautovski-Toseva, **L. Grcev**, "Analysis of the fields from a Hertzian dipole in an infinite homogenous medium", *Proceedings of International PhD-Seminar "Numerical Field Computation and Optimization in Electrical Engineering"*, 20-25 September 2005, Ohrid, Macedonia, pp. 197-202
- [193] S. Filiposka, **L. Grcev**, "Analysis of a Tall Object Response to Lightning", Macedonian-Polish Symposium on Applied Electromagnetics (SAEM'06), 8-10. June 2006, Ohrid, Macedonia, Symposium CD, pp. 1-4
- [194] V. Arnautovski-Toseva, Y. Rousset, K. E. K. Drissi and **L. Grcev**, "Transient Electromagnetic Analysis of a Power Converter Circuit", *Macedonian-Polish Symposium on Applied Electromagnetics (SAEM'06)*, 8-10. June 2006, Ohrid, Macedonia, Symposium CD, pp. 1-6
- [195] S. Filiposka, G. Vladev, **L. Grcev**, V. Filiposki, "Influence of uncoated and plastic coated metallic sheathed cables on the distribution of the electric potentials in urban area near high voltage substations", in *Proc. International PhD-Seminar: Computational Electromagnetics and Technical Applications*, Banja Luka, Bosnia and Herzegovina, 28.08-1.09, 2006, pp. 91-94
- [196] M. Mircev, O. Gavriloska, V. Arnautovski-Toseva, **L. Grcev**, "Quasi-static closed-form green's functions of a horizontal Hertzian dipole in homogenous soil", in *Proceedings International PhD-Seminar: Computational Electromagnetics and Technical Applications*, Banja Luka, Bosnia and Herzegovina, 28.08-1.09, 2006, pp 167-170
- [197] E. Zdravevski , V. Arnautovski-Toseva, **L. Grcev**, "Application of discrete complex images method in calculation of Sommerfeld integrals", in *Proceedings International PhD-Seminar: Computational Electromagnetics and Technical Applications*, Banja Luka, Bosnia and Herzegovina, 28.08-1.09, 2006, pp 257-260
- [198] Y. Rousset, V. Arnautovski-Toseva, C. Pasquier, K. E. K. Drissi, **L. Grcev**, "Using Feko software for analysis of radiated electric field by power converters", *Proc. 22nd Annual Review of Progress in Applied Computational Electromagnetics*, Miami, USA, 12-16 March, 2006, pp. 881-888.

- [199] С. Филипоска, В. Филипоски, **Л. Грчев**, „Преглед на епидемиолошките студии за ефектите врз здравјето на електромагнетни полиња со индустриска фреквенција“, *5то Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2007)*, 7-9 Октомври 2007, Охрид, стр. С3-04R 1-6.
- [200] С. Филипоска, В. Филипоски, **Л. Грчев**, „За можностите и начините на намалување на изложеноста на магнетни полиња со индустриска фреквенција во домовите“, *5то Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2007)*, 7-9 Октомври 2007, Охрид, стр. С3-05R 1-6.
- [201] **L. Grcev**, “Impulse efficiency of simple grounding electrode arrangements”, in Proc. 18th International Symposium on Electromagnetic Compatibility (EMC Zurich 2007), Sep. 24-28, 2007, Munich, Germany, pp. 325- 328.
- [202] D. Poljak, V. Doric, F. Rachidi, **L. Grcev**, V. Murko , “On the effect of an excitation source on the current distribution along a tall tower,” 15th International Symposium on High Voltage Engineering (ISH 2007), 27-31 Aug. 2007, Ljubljana, Slovenia, CD, T2-620.
- [203] V. Arnautovski-Toseva, **L. Grcev**, K.E.K. Drissi, “High frequency electromagnetic analysis of horizontal grounding conductor and near-by passive parallel conductor within two-layer soil”, 15-th International Conference SoftCOM – Symposium on EMC, 27-29 Sept. 2007 Split, Croatia, CD, pp. 1753_1-6.
- [204] V. Arnautovski-Toseva, K. El Khamlichi Drissi, **L. Grcev**, “Equivalent circuit model of electromagnetic behaviour of wire objects by Matrix Pencil method”, 8-th International Conference on Applied Electromagnetics PES07, 3- 5 Sept. 2007, Nis, Srbija, CD, pp. O3_1_1-6
- [205] V. Arnautovski-Toseva, **L. Grcev**, M. Kacarska and K. El Khamlichi Drissi, “Electromagnetic model for transient analysis of impedance to ground of horizontal grounding systems in two-layer soil”, in Proc. 6th Mediterranean Conference on Power Generation, Transmission and Distribution (MedPower2008), 2-5 Nov. 2008, Thessaloniki, Greece, CD, pp.1-6.
- [206] **L. Grcev**, A.P.J. van Deursen, “Transient grounding performance of metal sheathed power cables”, in Proc. International Symposium on Electromagnetic Compatibility (EMC Europe 2008), 8–12 Sep. 2008, Hamburg, Germany, CD, pp. 1–5.
- [207] V. Arnautovski-Toseva, **L. Grcev**, S. Petkoski and K.E.K. Drissi, “High frequency and transient coupling to passive conductors near grounding systems in layered soil”, in Proc. International Symposium on Electromagnetic Compatibility (EMC Europe 2008), 8–12 Sep. 2008, Hamburg, Germany, CD, pp. 1–5.
- [208] **L. Grcev**, “High frequency grounding: modeling and design”, in Proc. International Symposium European Electromagnetics EUROEM 2008, 21-25 Jul. 2008, Lausanne, Switzerland, CD, E433.
- [209] V. Arnautovski-Toseva, **L. Grcev** and K.E.K. Drissi, “Full wave analysis of vertical ground rod penetrating two-layer soil”, in Proc. International Symposium European Electromagnetics EUROEM 2008, 21-25 Jul. 2008, Lausanne, Switzerland, CD, E415.
- [210] **L. Grcev**, “Lightning surge characteristics of earthing electrodes”, Proc. 29th International Conference on Lightning Protection, Uppsala, Sweden, 23-26 Jun. 2008, pp. 5.10.1–16.
- [211] **L. Grcev**, S. Grceva, “Effective area of earthing systems under lightning surge conditions”, Proc. 29th International Conference on Lightning Protection, Uppsala, Sweden, 23-26 Jun. 2008, pp. 5.11.1–8.
- [212] V. Arnautovski-Toseva, K. El Khamlichi Drissi, C. Pasquier, K. Kerroum, D. Poljak, **L. Grcev**, “Application de la méthode de «Pencil» pour l’analyse des réponses impulsionnelles des conducteurs filaires”, 14ème colloque sur la CEM, 20-23 Mai 2008, Paris, France, CD, pp. 1-6
- [213] V. Arnautovski-Toseva, **L. Grcev**, M. Kacarska and K. El Khamlichi Drissi, “Electromagnetic model for transient analysis of impedance to ground of horizontal grounding systems in two-layer soil”, in Proc. 6th Mediterranean Conference on Power Generation, Transmission and Distribution (MedPower2008), 2-5 Nov. 2008, Thessaloniki, Greece, CD, pp.1-6.
- [214] **L. Grcev**, A.P.J. van Deursen, S. Grceva, “Distribution of lightning current between horizontal and vertical earthing conductors”, Third International Symposium on Lightning Physics and Effects, Vienna, Austria, 14-15 April 2008.
- [215] **Л. Грчев**, М. Кацарска, С. Петкоски, Љ. Карајановски, В. Арнаутовски-Тошева, “Мерење на електрично и магнетно поле во урбани средини под влијание на 110 kV далноводи и 110/35/10kV трафостаници”, 6то Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2009), 4-6 октомври 2009, Охрид, стр. С3-04R 1-9.
- [216] **Л. Грчев**, М. Кацарска, С. Петкоски, В. Арнаутовски-Тошева, “Хармонизација на стандардите и легислативата на Р. Македонија со стандардите на ЕУ за изложеност на електромагнетни полиња”, 6то Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2009), 4-6 октомври 2009, Охрид, стр. С3-05R 1-8.
- [217] М. Кацарска, **Л. Грчев**, С. Петкоски, В. Арнаутовски-Тошева, “Нови истражувачки можности за проценка и идентификација на електромагнетна изложеност на Центарот за електромагнетна компатибилност

- при ФЕИТ – Скопје”, бто Советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2009), 4-6 октомври 2009, Охрид, стр. С3-06R 1-8.
- [218] **Л. Грчев**, М. Кацарска, В. Арнаутовски-Тошева, С. Петкоски, Љ. Карајановски, „Мерење на електромагнетното зрачење од базни станици во урбани средини“, ЕТАИ 2009, Охрид, 26-29 Септември, 2009.
- [219] S. Petkoski, L. Karajanovski, V. Arnautovski-Toseva, M. Kacarska and **L. Grcev**, “Measurements of electric and magnetic fields near substations and power lines in urban environment”, in Proc. 4th PhD Seminar Computational Electromagnetics and Bioeffects of Electromagnetic Fields (CEMBEF 2009), Nis, Serbia, Aug. 2009, pp. 1-6.
- [220] Ljupčo Karajanovski, Spase Petkoski, Marija Kacarska, Vesna Arnautovski-Toševa, Leonid Grčev, RF Base Stations in Urban Areas and its Influence, CEMBEF 2009, August 28-30, 2009, Niš, Serbia.
- [221] L. Karajanovski¹, S. Petkoski, M. Kacarska, V. Arnautovski Toseva, **L. Grcev**, “Measurements of the electromagnetic radiation from a BTS in urban areas”, in Proc. 9th International Conference on Applied Electromagnetics (PES09), Nis, Serbia, Aug. 2009, pp. 1-4.
- [222] L. Karajanovski, S. Petkoski, V. Arnautovski-Toseva, M. Kacarska, **L. Grcev**, “Measurements of the Electromagnetic Radiation from a BTS in Urban Areas”, CEMBEF 2009, August 28-30, 2009, Niš, Serbia.
- [223] S. Petkoski, L. Karajanovski, V. Arnautovski-Toseva, M. Kacarska, **L. Grcev**, “Electric and Magnetic Fields Near the Substations Power Lines in Urban Environment”, CEMBEF 2009, August 28-30, 2009, Niš, Serbia.
- [224] Б. Марковски, Љ. Карајановски, **Л. Грчев**, М. Кацарска, “Испитување на нивоа на нискофреквентно магнетно поле во урбани средини од аспект на прописите”, Зборник на 16-то Меѓународно советување Енергетика 2010, 7-9 Октомври 2010, Охрид, Книга 2, стр. 1179-1188.
- [225] Б. Марковски, Љ. Карајановски, **Л. Грчев**, М. Кацарска, „Испитување на нивоа на нискофреквентно магнетно поле во урбани средини од аспект на прописите“, Зборник на 16-то Меѓународно советување Енергетика 2010, 7-9 Октомври 2010, Охрид, Книга 2, стр. 1179-1188.
- [226] B. Markovski, S. Grceva, **L. Grcev**, “Visualization with OpenDX: Application in EMF Modeling”, Proc. 5th International PhD Seminar Computational Electromagnetics and Optimization in Electrical Engineering, 10 - 13 September 2010, Sofia, Bulgaria, pp. 120-123.
- [227] L. Karajnovski, B. Markovski, M. Kacarska, V. Arnautovski-Toseva, **L. Grcev**, “Urban Area Route EMF Monitoring from Different RF Sources Using Personal Dosimeter”, Proc. 5th International PhD Seminar Computational Electromagnetics and Optimization in Electrical Engineering, 10 - 13 September 2010, Sofia, Bulgaria, pp. 46-49.
- [228] V. Arnautovski-Toseva, K. Kerroum, K. El Khamlichi Drissi, S. Grceva, **L. Grcev**, “Comparison of exact, image and TL model of a horizontal wire above two-layer soil”, Proc. 20th Int. Conf. on Applied Electromagnetics and Communications (ICECOM 2010), Paper S15P03, pp. 1-4, Dubrovnik, Croatia, Sep. 2010.
- [229] Б. Марковски, **Л. Грчев**, М. Кацарска: “Преглед на активности и усвоени прописи во Република Македонија и соседните држави за заштита на луѓето од нискофреквентни електрични и магнетни полиња”, Зборник на трудови на 7-мо советување на Македонскиот комитет на СИГРЕ (МАКО СИГРЕ 2011), С3-153R, Охрид, Македонија, 2-4 октомври 2011.
- [230] B. Markovski, **L. Grcev**, V. Arnautovski-Toseva, “Visualization of EM field strength from different radio-frequency sources in urban area”, Proc. 4th Int. Conf. on Electromagnetic Fields, Health and Environment (EHE 2011), pp. 1-5, Coimbra, Portugal, May 26-28, 2011.
- [231] V. Arnautovski-Toseva, **L. Grcev**, “Earth termination effects in tall metallic towers: comparison of image and exact models for homogeneous and layered earth”, Proc. 29th Progress in Electromagnetics Research Symposium (PIERS 2011), p. 824, Marrakesh, Morocco, March 20-23, 2011.
- [232] B. Markovski, **L. Grcev**, S. Grceva, V. Arnautovski-Toseva, “Inductance of horizontal bare conductor immersed in homogeneous lossy half-space”, Proc. of 10th Int. Conf. on Applied Electromagnetics (PES 2011), pp. 91- 92, Nis, Serbia, 26-28 September 2011.
- [233] B. Markovski, **L. Grcev**, M. Kacarska, “Overview of the reference levels for low frequency electric and magnetic fields in the legislation of Southeast European countries”, Int. Conf. on Safety of Technical Systems in Working and Living Environment (STS 2011), Nis, Serbia , 27-28 October 2011.
- [234] **L. Grcev**, B. Markovski, V. Arnautovski-Toseva, K. E. K. Drissi, “Transient analysis of grounding systems without computer,” in 31st International Conference on Lightning Protection (ICLP 2012), Vienna, Austria, 2012, pp. 1-6.
- [235] B. Markovski, **L. Grcev**, V. Arnautovski-Toseva, “Transient characteristics of wind turbine grounding - frequency dependent and soil ionization effects”, Proc. of 31st International Conference on Lightning Protection (ICLP 2012), Vienna, Austria, 2012, pp 1-6.

- [236] B. Markovski, **L. Grcev**, V. Arnautovski-Toseva, "Step and touch voltages near wind turbine grounding during lightning strokes", in Proc. of International Symposium on Electromagnetic Compatibility (EMC Europe 2012), Rome, Italy, 2012, pp 1-6.
- [237] B. Markovski, **L. Grcev**, V. Arnautovski-Toseva, K. Drissi, S. Grceva, K. Kerroum, "Comparison of transmission line and electromagnetic approaches to modeling of buried horizontal wires of finite length", Proc. of Advanced Electromagnetics Symposium (AES 2012), Paris, France, 2012, pp 1-5.
- [238] V. Arnautovski-Toseva, K. El Khamlichi Drissi, **L. Grcev**, "Effects of quasi-static approximation of Green's functions in the model of a horizontal wire conductor in homogeneous soil", Advanced Electromagnetics Symposium (AES 2012), April 16-19, 2012 Paris, France, pp. 71–79.
- [239] V. Arnautovski-Toseva, K. El Khamlichi Drissi, K. Kerroum, **L. Grcev**, "Comparison of Approximate Models of Horizontal Wire Conductor Above Homogeneous Ground", 6th European Conference on Antennas and propagation (EuCAP 2012), March 23-26, Prague, Czech Republic, pp. 1-5
- [240] **L. Grcev**, B. Markovski, A. Kuhar, V. Arnautovski-Toseva, K. El Khamlichi Drissi, K. Kerroum, "Modeling of horizontal grounding electrodes for lightning studies – Comparison of electromagnetic and transmission line models in frequency domain", in Book of Abstracts of 2012 European Electromagnetics International Symposium (EUROEM 2012), Toulouse, France, 2012, pp. 125.
- [241] A. Kuhar, R. Jankoski and **L. Grcev**, "Coupling model between current injected into the soil and nearby vertical grounding rod", 6th International PhD Seminar on Computational Electromagnetics and Bioeffects of Electromagnetic Fields – (CEMBEF 2012), Novi Sad, Srbija, Jun 28-30, 2012, pp. 1-4.
- [242] Lj. Karajanovski, B. Markovski, A. Kuhar, **L. Grcev**, V. Arnautovski-Toseva, "Comparison of electromagnetic and circuit theory approaches to high frequency analysis of grounding systems", 6th International PhD Seminar on Computational Electromagnetics and Bioeffects of Electromagnetic Fields (CEMBEF 2012), Novi Sad, Srbija, Jun 28-30, 2012, pp. 1-4.
- [243] B. Markovski, R. Jankoski, **L. Grcev**, V. Arnautovski-Toseva, "Inductance Calculations of buried wires in semi-infinite conducting medium", Proceedings of 7th International PhD Seminar on Computational electromagnetics and bioeffects of electromagnetic fields (CEMBEF 2013), August 28-31, 2013, Niš, Serbia, pp. 1-4.
- [244] A. Kuhar, R. Jankoski, V. Arnautovski-Toseva, L. Ololoska-Gagoska, **L. Grcev**, "Comparison of PEEC and MoM approaches to modelling of current distribution along conductors", 11th International Conference on Electronics, Telecommunications, Automation and Informatics – ETAI 2013, Ohrid, Macedonia, September 26-28, 2013, pp. 1-4.
- [245] V. Arnautovski-Toseva, **L. Grcev**, "Modelling of plane wave coupling to horizontal wire conductor above lossy soil", Proceedings of 11th International Conference on Applied Electromagnetics (ПЕC 2013), September 1 - 4, 2013, Niš, Serbia, pp. 1–4. (Best paper award)
- [246] V. Arnautovski-Toseva, **L. Grcev**, M. Kacarska, "High frequency grounding studies - Image and transmission line models vs. electromagnetic model", Proceedings of 21th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2013) – Symposium on environmental electromagnetic compatibility (EEMC), September 18-20, 2013, Split, Croatia, pp. 1–5.
- [247] A. Kuhar, R. Jankoski, V. Arnautovski-Toseva, L. Ololoska-Gagoska, **L. Grcev**, "Partial element equivalent circuit model for a perfect conductor excited by a current source", Proceedings of 11th International Conference on Applied Electromagnetics (ПЕC 2013), September 1 - 4, 2013, Niš, Serbia, pp. 1–4.
- [248] A. Kuhar, R. Jankoski, V. Arnautovski-Toseva, L. Ololoska-Gagoska, **L. Grcev**, "Current distribution analysis along a conductor excited by a pulse source using partial element equivalent circuit method", Proceedings of 16th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering (ISEF 2013), Ohrid, Macedonia, September 12-14, 2013, pp. 1–5.
- [249] M. Popov, **L. Grcev** and V. Terzija, "An efficient procedure for transient analyses by taking rigorously into account complex grounding systems", VII International workshop on power transformers, equipment, substations and materials, Rio de Janeiro, Brazil, November, 23 - 26, 2014, pp. 1-8.
- [250] M. Popov, **L. Grcev**, "Interfacing complex grounding systems for power system analysis", Proceedings of the European EMTP-ATP Conference, Cagliari, Italy, 15-16 September, 2014, Cagliari, Italy, pp.49-60
- [251] V. Arnautovski-Toseva, K. El Khamlichi Drissi, K. Kerroum, **L. Grcev**, "Plane wave coupling to horizontal two-wire line above homogeneous lossy soil: Comparison between TL and complex image approach", 17th International Symposium on Electromagnetic Compatibility (CEM 2014), 30 June-3 July, 2014, Clermont-Ferrand, France, pp. 1–6.
- [252] A. Kuhar and **L. Grcev**, "Calculating the impedance of grounding electrodes using circuit equivalents", 12th International Conference on Applied Electromagnetics - ПЕC 2015, Niš, Serbia, 2015.

- [253] V. Arnautovski-Toseva, **L. Grcev**, M. Kacarska, "Analysis of transient plane wave coupling to horizontal conductor in homogeneous lossy soil", 12th International Conference on Applied Electromagnetics - ПЕС 2015, Niš, Serbia, August 31 – September 02, 2015
- [254] V. Arnautovski-Toseva, **L. Grcev**, "Effect of buried grounding rod and soil characteristics in HF tower models", Proceedings of 16th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering (ISEF 2013), Ohrid, Macedonia, September 12-14, 2013, pp. 1–6.
- [255] B. Markovski, **L. Grcev**, V. Arnautovski-Toseva and M. Kacarska, "Transient performance of interconnected wind turbine grounding systems", Proceedings of 16th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering (ISEF 2013), Ohrid, Macedonia, September 12-14, 2013, pp. 1–6.
- [256] V. Arnautovski-Toseva, **L. Grcev**, M. Kacarska, "Applicability of approximate Green's functions in MPIE model of a horizontal wire conductor in lossy soil", 5th International Symposium on Applied Electromagnetics (SAEM 2014), Skopje, Macedonia, 8-11 June, 2014, pp. 1–6.
- [257] R. Jankoski, A. Kuhar, B. Markovski, M. Kacarska, **L. Grcev**, "Application of the electric circuit approach in the analysis of grounding conductors", 5th International Symposium on Applied Electromagnetics (SAEM 2014), Skopje, Macedonia, 8-11 June 2014, pp. 1-7.
- [258] R. Jankoski, V. Arnautovski-Toseva, M. Kacarska, A. Kuhar, B. Markovski, **L. Grcev**, "Electric field calculation using partial element equivalent circuit and mixed potential integral equation", 5th International Symposium on Applied Electromagnetics (SAEM 2014), Skopje, Macedonia, 8-11 June 2014, pp. 1-6.
- [259] R. Jankoski, A. Kuhar, and **L. Grcev**. "Frequency domain analysis of large grounding systems using hybrid circuit model," 8th International PhD Seminar on Computational and Electromagnetic Compatibility, 2-4 September 2014, Timisoara, Romania, pp. 1-4.
- [260] A. Kuhar, L. Ololoska-Gagoska and **L. Grcev**, "Numerical analysis of complex grounding systems using circuit based method", 12th International Conference on Electronics, Telecommunications, Automation and Informatics – ETAI 2015, Ohrid, Macedonia, 2015.
- [261] A. Кухар, Л. Ололоска-Гэгоска, **Л. Грчев**, "Анализа на заземјувачки проводници со користење на SPICE симулатор", ЕТАИ 2016 [Ел. извор]: зборник на трудовите од XIII меѓународна конференција, 22-24 септември 2016, Струга, Република Македонија, уред. М. Котевски, Скопје, Ss. Cyril and Methodius University, FEIT, 2016, 1 CD-ROM, pp. 1-4 (PDF).
- [262] A. Kuhar, L. Ololoska-Gagoska, **L. Grcev**, "SPICE compatible equivalent circuits for analysis of grounding conductors", Proceedings of Full Papers [El. resource]: 13th International Conference on Applied Electromagnetics - ПЕС 2017, August 30 – September 01, 2017 Niš, Serbia, [gl. i odg. ured. D. Mančić], Niš, Elektronski fakultet, 2017. – 1 CD-ROM, 4 pages.
- [263] V. Arnautovski Toševa, **L. Grčev**, S. Čundeva, "High frequency behaviour of ground rods in two-layer soil", Proceedings of Full Papers [El. resource]: 13th International Conference on Applied Electromagnetics - ПЕС 2017, August 30 – September 01, 2017 Niš, Serbia, [gl. i odg. ured. D. Mančić], Niš, Elektronski fakultet, 2017. – 1 CD-ROM, 4 pages.
- [264] A. Kuhar, **L. Grcev**, B. Markovski, "Improved TL inductivity formula for analysis of grounding conductors", IEEE EUROCON 2017 – 17th International Conference on Smart Technologies: proceedings of a meeting held 6-8 July 2017, Ohrid, Macedonia, Red Hook, NY, IEEE, 2017, Vol. 2., pp. 908-913.
- [265] V. Arnautovski Toseva, **L. Grcev**, K. El Khamlichi Drissi, "High frequency performance of ground rod in two-layer soil", IEEE EUROCON 2017 – 17th International Conference on Smart Technologies: proceedings of a meeting held 6-8 July 2017, Ohrid, Macedonia, Red Hook, NY, IEEE, 2017, Vol. 2., pp. 914-918.
- [266] Б. Марковски, **Л. Грчев**, "Електромагнетно влијание на високонапонски преносни водови и останати елементи на ЕЕС врз подземни метални цевководи за транспорт на нафта и гас", Зборник на трудови [Ел. извор]: 10. Советување МАКО CIGRÉ, Охрид, 24–26 септември 2017, уред. Р. Талески, Скопје, Македонски комитет во СИГРЕ, ФЕИТ, 2017. – 1 CD-ROM, стр. C4-039R.1/8 - C4-039R.8/8.

IV. УНИВЕРЗИТЕТСКИ УЧЕБНИЦИ

- [267] **Л. Грчев**, „Предавања по основи на електрогехника I“, ФЕИТ, Скопје, 2015.
- [268] **Л. Грчев**, „Предавања по основи на електрогехника II“, ФЕИТ, Скопје, 2016.

V. ТЕЗИ

- [269] **L. Grcev**, "Stationary electric field near transmission line towers," M. Sc. Thesis, University of Zagreb, 1982.
- [270] **L. Grcev**, "Computation of the transient impedance of grounding systems," Ph. D. Thesis, University of Zagreb, 1986.

VI ИЗВЕШТАИ ОД НАУЧОИСТРАЖУВАЧКИ ПРОЕКТИ

- [260] N. Pocajt, J. Gajica, **L. Grcev**, "Computation of High-Frequency m-Phase Transmission Line Parameters," Scientific Project, Ministry of Science, Serbia, 1983.
- [261] **Л. Грчев (учесник)**, Тема: „Моделирање на заземјувачки системи врз основа на нумеричко решавање на електромагнетни полиња“ во „Електроенергетски системи“, Проект на МАНУ (раководител акад. Т. Бошевски), 1992-1995.
- [262] **Л. Грчев (главен истражувач)**, „Опасни и штетни електромагнетни влијанија и нивно моделирање со компјутер“, Извештај од научно-истражувачки проект, Министерство за наука, Република Македонија, 1997.
- [263] **L. Grcev (Principal Investigator)**, "Lightning Electromagnetic Interaction to Electrical Systems," Scientific Report, Project no. MAK 11-96, German – Macedonian Joint Project, RWTH Aachen, 1998.
- [264] **L. Grcev (Principal Investigator)**, "Residential and Industrial Electromagnetic Environment," Scientific Report, U.S. – Macedonian Joint Scientific Project, Project no. 137, Department of Energy, USA, 2000.
- [265] **Л. Грчев (главен истражувач)**, „Заштита од опасни електромагнетни влијанија“, Извештај од научно-истражувачки проект, Министерство за наука, Република Македонија, 2002.
- [266] **Л. Грчев (главен истражувач)**, „Електромагнетни влијанија, методи за моделирање и подобрување на заштита“, Министерство за образование и наука на Република Македонија, 2004-2006.

VII. ИЗВЕШТАИ ОД ТЕХНИЧКИ ПРОЕКТИ

- [267] **L. Grcev**, "Telecommunication Installations in 110/35 kV Substation Kavadarci," (in Macedonian), Electric Power Company of Macedonia, 1983.
- [268] **L. Grcev**, "Telecommunication Installations in 110/35 kV Substation Prilep," (in Macedonian), Electric Power Company of Macedonia, 1983.
- [269] **L. Grcev**, "Telecommunication Installations in 110/35 kV Substation Skopje 3," (in Macedonian), Electric Power Company of Macedonia, 1983.
- [270] **L. Grcev**, I. Atanaskov, T. Cerepnalkovski, "Information System of the Electric Power Company of Macedonia," (in Macedonian), Electric Power Company of Macedonia, 1986.
- [271] **Л. Грчев**, "Елаборат за определување на опасно влијание врз телекомуникационите кабли кои се воведуваат во ХЕЦ Шпиље и техничко решение за заштита", ЕТФ Скопје – Електростопанство на Македонија, 1992.
- [272] **Л. Грчев**, "Елаборат за определување на опасно влијание врз телекомуникационите кабли кои се воведуваат во ХЕЦ Глобочица и техничко решение за заштита", ЕТФ Скопје – Електростопанство на Македонија, 1992.
- [273] **Л. Грчев**, "Елаборат за определување на опасно влијание врз телекомуникациониот кабел ХЕЦ Вруток - ХЕЦ Равен и техничко решение за заштита", ЕТФ Скопје – Електростопанство на Македонија, 1993.
- [274] **Л. Грчев**, "Елаборат за определување на опасно влијание на електроенергетските постројки врз телекомуникационите постројки во с. Вруток и неговата околина и техничко решение за заштита", ЕТФ Скопје – Претпријатие за ПТТ сообраќај "Македонија" - Скопје, 1993.
- [275] Д. Давчев, Ж. Ицев, **Л. Грчев**, и соработници, "Главен проект за програмска подршка на Комплексниот информативен систем за одржување на Електростопанство на Македонија", ЕТФ Скопје – Електростопанство на Македонија, 1993.
- [276] **Л. Грчев**, В. Филипоски, "Елаборат за определување на опасно влијание врз телекомуникациониот кабел кој се воведува во ТС Југ Нова и техничко решение за заштита", ЕТФ Скопје – Претпријатие за ПТТ сообраќај "Македонија" - Скопје, 1995.

- [277] Б. Спасеновски, **Л. Грчев**, М. Богатиновски, “Главен проект на заштита на телекомуникациони линии од влијание на ДВ 400 kV Битола - Скопје”, ЕТФ Скопје – Електростопанство на Македонија, 1995.
- [278] Б. Спасеновски, **Л. Грчев**, М. Богатиновски, “Елаборат за заштита на телекомуникациони линии од влијание на ДВ 110 kV Берово - Делчево”, ЕТФ Скопје – Електростопанство на Македонија, 1995.
- [279] **Л. Грчев**, В. Филипоски, “Елаборат за определување на опасно влијание врз телекомуникациониот кабел ХЕЦ Тиквеш и техничко решение за заштита”, ЕТФ Скопје – Електростопанство на Македонија, 1996.
- [280] **Л. Грчев**, В. Филипоски, “Елаборат за определување на опасно влијание на електроенергетските постројки врз телекомуникационите кабли кои се воведуваат во ТС 400/110 kV Скопје 4 и ТС 110/35 kV Скопје 2 и техничко решение за заштита”, ЕТФ Скопје – Електростопанство на Македонија, 1996.
- [281] **Л. Грчев**, В. Филипоски, “Елаборат за определување на граница на сектор на опасно влијание врз телекомуникационите инсталации околу ТС 400/110 kV Скопје 4”, ЕТФ Скопје – Претпријатие за ПТТ сообраќај “Македонија” - Скопје, 1996.
- [282] **Л. Грчев**, В. Филипоски, “Елаборат за определување на граница на сектор на опасно влијание врз телекомуникационите инсталации околу ТС 110/35 kV Скопје 2”, ЕТФ Скопје – Претпријатие за ПТТ сообраќај “Македонија” - Скопје, 1996.
- [283] **Л. Грчев**, В. Јанков, В. Филипоски, Д. Грчев, “Елаборат за определување на опасно влијание на електроенергетските постројки врз гасоводниот цевовод”, ЕТФ Скопје – Макпетрол Скопје, 1996.
- [284] **Л. Грчев**, Д. Грчев, В. Филипоски, В. Јанков, “Стручно мислење за примена на законска техничка регулатива во областа на заштита на гасоводниот цевовод од опасни влијанија на електроенергетските постројки”, ЕТФ Скопје – Макпетрол Скопје, 1996.
- [285] **Л. Грчев**, В. Филипоски, “Техничко решение за заштита на телекомуникациони инсталации во населба Усје во секторот на опасно влијание на ТС Скопје ”, ЕТФ Скопје – Претпријатие за ПТТ сообраќај “Македонија” - Скопје, 1997.
- [286] **Л. Грчев**, В. Филипоски, В. Јанков, Д. Грчев, и соработници, “Главен проект за заштита на гасоводниот цевовод од опасно влијание на електроенергетските постројки ”, ЕТФ Скопје – Макпетрол Скопје, 1997.
- [287] **Л. Грчев**, В. Филипоски, “Техничко решение за заштита на пилот кабелот за подолжна диференцијална заштита на 110 kV далековод ТЕЦ Неготино - ТС Дуброво од пренапони поради електромагнетни влијанија”, Електростопанство на Македонија, 1998.
- [288] **Л. Грчев**, “Стручно мислење за резултатите во Елаборатот за испитување на потенцијалот на плото и пресметка на напонската инка во подрачјето ХЕЦ Вруток и ХЕЦ Равен, Електростопанство на Македонија, 1997, и Анекс елаборатот, Електростопанство на Македонија, 1998”, Македонски телекомуникации, 1998.
- [289] **Л. Грчев**, В. Филипоски, Ц. Гавровски, В. Димчев, “Елаборат за определување на сектор на опасно влијание врз телекомуникациони инсталации во Башино Село околу ТС 110/35 kV Велес”, Македонски телекомуникации, 1998.
- [290] **Л. Грчев**, В. Филипоски, В. Арнаутovski, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Прв дел: ТС 110/10 kV Козле”, Македонски телекомуникации и Електростопанство на Македонија, 1998.
- [291] **Л. Грчев**, В. Филипоски, В. Арнаутovski, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Втор дел: ТС 110/35/10 kV Скопје - Запад”, Македонски телекомуникации и Електростопанство на Македонија, 1998.
- [292] **Л. Грчев**, В. Филипоски, В. Арнаутovski, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Трет дел: ТС 110/10 kV Козле”, Македонски телекомуникации и Електростопанство на Македонија, 1998.
- [293] **Л. Грчев**, “Human Exposure to Electric and Magnetic Fields near 400 kV Transmission Line Bitola–Amynteo,” Part of the “Technical and Environmental Impact Studies of Upgrading at 400 kV of the Existing 150 kV Transmission Line Amynteo – Bitola”, according to the Contract XVII/5.7100/Z/97.014 between PPC and E.C. and Associated Contract between PPC – Athens and ESM – Скопје, 1999.
- [294] **Л. Грчев**, В. Филипоски, В. Арнаутovski, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Четврти дел: ТС 110/10 kV Скопје 1”, Македонски телекомуникации и Електростопанство на Македонија, 1999.
- [295] **Л. Грчев**, В. Филипоски, В. Арнаутovski, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Петти дел: ТС 110/10 kV Ѓорче Петров”, Македонски телекомуникации и Електростопанство на Македонија, 1999.

- [296] **Л. Грчев**, В. Филипоски, В. Арнаутовски, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје – Шести дел: ТС 110/10 kV Васил Главинов”, Македонски телекомуникации и Електростопанство на Македонија, 1999.
- [297] **Л. Грчев**, В. Филипоски, В. Арнаутовски, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Седми дел: ТС 110/10 kV Аеродром”, Македонски телекомуникации и Електростопанство на Македонија, 2000.
- [298] **Л. Грчев**, В. Филипоски, В. Арнаутовски, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Осми дел: ТС 110/10 kV Исток”, Македонски телекомуникации и Електростопанство на Македонија, 2000.
- [299] **Л. Грчев**, В. Филипоски, В. Арнаутовски, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Девети дел: ТС 110/10 kV Гази Баба”, Македонски телекомуникации и Електростопанство на Македонија, 2000.
- [300] **Л. Грчев**, В. Филипоски, В. Арнаутовски, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Скопје - Десетти дел: ТС 110/10 kV Југ-Нова”, Македонски телекомуникации и Електростопанство на Македонија, 2000.
- [301] **Л. Грчев**, В. Филипоски, “Ревизија на Студија за непосредните ефекти и системот за заземјување на нафтоводот - Делница Рафинерија ОКТА – Граница”, ЕТЕП А. Е. , Атина, Грција, 2001.
- [302] **Л. Грчев**, “Стручно мислење за Студија за електромагнетно влијание и заземјување на цевководот - Делница Рафинерија ОКТА – Граница (Proximity effects study and pipeline grounding system – Section: ОКТА Refinery – Border, Document No. 1000-300-CL-CPR-02 од 13.XI.2000 изработен за EL.P.ET Valkaniki S.A.)”, 2001.
- [303] **Л. Грчев**, В. Филипоски, “Студија за влијанието на електричното и магнетното поле врз луѓето во околина на 400 kV далекувод Дуброво - Штип-Македонско-Бугарска граница. Книга I: Определување на гранични дозволени вредности за електричното и магнетното поле”, ЕСМ, 2001.
- [304] **Л. Грчев**, В. Филипоски, “Студија за влијанието на електричното и магнетното поле врз луѓето во околина на 400 kV далекувод Дуброво - Штип-Македонско-Бугарска граница. Книга II: Електрично поле во околина на 400 kV далекувод Дуброво - Штип”, ЕСМ, 2001.
- [305] **Л. Грчев**, В. Филипоски, “Електрично и магнетно поле во просторот на разводното поле на трафостаницата Скопје 5”, ЕСМ, 2002.
- [306] **Л. Грчев**, В. Филипоски, Д. Христовски, “Студија за заштита на телекомуникациони инсталации во сектор на опасно влијание во околина на 110 kV трафостаници во Македонија – Делови I-XI”, Мактел, 2002-04.
- [307] **Л. Грчев**, В. Филипоски, “Заштита на телефонски претплатнички инсталации во зони на влијание на 110 kV постројки во Струмица и Скопје”, Македонски телекомуникации, 2004-2005.
- [308] **Л. Грчев**, В. Филипоски, “Електромагнетни влијанија на 400 kV далновод Штип-Граница врз гасоводниот цевковод”, ЕМО - Охрид, 2005.
- [292] **Л. Грчев**, В. Филипоски, „Елаборат за електромагнетно влијание на 400 kV далекувод Штип - Македонско Бугарска граница при вкрстување и критично приближување со постојниот гасоводен цевковод и мерки за заштита од негативните влијанија на истиот“, МЕПСО, 2007
- [293] **Л. Грчев**, В. Филипоски, „Елаборат за распределба на потенцијалот, јачината на електричното и магнетното поле во просторот и околината на ТС 110/10 kV ”Ѓорче Петров“, ЕВН, 2008.

Дополнил и коригирал:
Аџиовски Вангел

Библиотека на МАНУ
Март 2018