

November 5, 2012

CURRICULUM VITAE

Name: Kazuya KOBAYASHI

Nationality: Japanese

Date of Birth: February 28, 1955

1. Contact Address (Work)

Affiliation: Department of Electrical, Electronic, and Communication Engineering
Faculty of Science and Engineering
Chuo University

Address: 1-13-27 Kasuga, Bunkyo-ku, Tokyo 112-8551, Japan

Phone: +81-3-3817-1869 (direct), +81-3-3817-1846 (department),
+81-90-6515-9485 (mobile)

Fax: +81-3-3817-1847 (department)

Email: kazuya@tamacc.chuo-u.ac.jp

2. Research Areas

canonical problems, developments of rigorous mathematical techniques as applied to electromagnetic wave problems, electromagnetic theory, guided waves, radar cross section, scattering and diffraction

3. Education and Academic Degrees

- 1982: Ph.D. in Electrical Engineering (Waseda University, Tokyo, Japan)
- 1979: M.S. in Electrical Engineering (Waseda University, Tokyo, Japan)
- 1977: B.S. in Electrical Engineering (Waseda University, Tokyo, Japan)

4. Positions at Home Institution and Overseas Institutions

Dr. Kobayashi has been with the Department of Electrical, Electronic, and Communication Engineering, Faculty of Science and Engineering, Chuo University, Tokyo, Japan since April 1982.

Positions at Chuo University:

- 1995-present: Professor, Faculty of Science and Engineering, Chuo University
- 1985-1995: Associate Professor, Faculty of Science and Engineering, Chuo University
- 1982-1985: Assistant Professor, Faculty of Science and Engineering, Chuo University

Management Appointments at Chuo University:

- 2010-2012: Chair, Department of Electrical, Electronic, and Communication Engineering, Faculty of Science and Engineering, Chuo University
- 2009-2010: Vice Chair, Department of Electrical, Electronic, and Communication Engineering, Faculty of Science and Engineering, Chuo University
- 2006-2008: Vice President (International Affairs), Chuo University
- 2003-2006: Director, International Center, Chuo University
- 2003-2006: Member, Academic Council, Chuo University
- 2001-2003: Secretary to President, Chuo University
- 1996-2003: Member, All-University International Affairs Committee, Chuo University
- 1996-2000: Chair, Department of Electrical, Electronic, and Communication Engineering, Faculty of Science and Engineering, Chuo University

Visiting Positions at Overseas Institutions:

- 2004-present: Adjunct Professor, The Electromagnetics Academy at Zhejiang University, Hangzhou, China
- 2001: Visiting Professor, Institute of Radiophysics and Electronics, National Academy of Sciences of Ukraine, Kharkov, Ukraine
- 2001: Visiting Professor, Karpenko Physico-Mechanical Institute, National Academy of Sciences of Ukraine, Lvov, Ukraine
- 1987-1988: Visiting Associate Professor, Department of Electrical and Computer Engineering, University of Wisconsin-Madison, Madison, Wisconsin, USA

5. Memberships in Professional Societies and Academic Awards

Memberships:

- 2003-present: Fellow, The Electromagnetics Academy, USA
- 2002-present: Associate Member, Science Council of Japan, Japan
- 1994-present: Member, The Institute of Electrical Engineers of Japan (IEEJ), Japan
- 1977-present: Member, Institute of Electrical and Electronics Engineers (IEEE), USA (currently Senior Member)
- 1976-present: Member, The Institute of Electronics, Information and Communication Engineers (IEICE), Japan

Recognition and Awards:

Dr. Kobayashi is listed in “Who’s Who in Electromagnetics.” He also received several awards in recognition of his significant contributions to electromagnetic theory and its applications:

- 1998: V. G. Sologub Prize (equivalent to Best Paper Award), 1998 International Conference on Mathematical Methods in Electromagnetic Theory (MMET*98), Ukraine, 1998
- 1983: Shinohara Memorial Young Scientist Award, The Institute of Electronics,

Information and Communication Engineers, Japan

- 1983: Niwa Memorial Award, The Niwa Memorial Foundation, Japan

6. Activities in Professional Societies

Dr. Kobayashi has experiences in organizing various international conferences and editing a number of special issues in electromagnetics and related areas. In particular, he has made significant contributions to URSI (International Union of Radio Science) and PIERS (Progress In Electromagnetic Research Symposium). Principal activities by Dr. Kobayashi are listed below.

URSI Activities (since 2002):

Listed below are principal, URSI positions (current and past).

- 2012-present: Member, Program Committee, Second International Conference on Telecommunications and Remote Sensing (ICTRS 2013), July 11-12, 2013, Noordwijkerhout, The Netherlands
- 2011-present: Co-Chair, International Advisory Committee, 2013 Asia-Pacific Radio Science Conference (AP-RASC'13), Taipei, Taiwan, September 3-7, 2013
- 2011-present: Co-Chair, International Organizing Committee, 2013 Asia-Pacific Radio Science Conference (AP-RASC'13), Taipei, Taiwan, September 3-7, 2013
- 2010-present: Chair, AP-RASC Standing Committee
- 2010-present: Chair, International Advisory Board, 2013 URSI International Symposium on Electromagnetic Theory (EMTS 2013), Hiroshima, Japan, May 20-23, 2013
- 2010-present: Guest Editor, "Special Issue of the 2010 Asia-Pacific Radio Science Conference," Radio Science (to be published)
- 2008-present: President, Japan National Committee of URSI
- 1999-present: Member, Technical Advisory Board, Commission B, URSI
- 1996-present: Member, Commission B, Japan National Committee of URSI
- 2011-2012: Member, Program Committee, First International Conference on Telecommunications and Remote Sensing (ICTRS 2012), Sofia, Bulgaria, August 29-31, 2012
- 2010-2011: Guest Editor, "Special Issue of the AP-RASC'10 Student Paper Competition," URSI Radio Science Bulletin, No. 337, June 2011
- 2010-2011: Member, Organizing Committee, XXX URSI General Assembly and Scientific Symposium (GASS 2011), Istanbul, Turkey, August 13-20, 2011
- 2009-2011: Conference Chair, 2010 Asia-Pacific Radio Science Conference (AP-RASC'10), Toyama, Japan, September 22-26, 2010
- 2009-2011: Chair, International Steering Committee, 2010 Asia-Pacific Radio Science Conference (AP-RASC'10), Toyama, Japan, September 22-26, 2010
- 2009-2011: Chair, Young Scientist Program Committee, 2010 Asia-Pacific Radio Science Conference (AP-RASC'10), Toyama, Japan, September 22-26, 2010

- 2007-2008: Editor-in-Chief, “URSI National Report 2004-2007,” Japan National Committee of URSI, July 2008
- 2007-2008: Member, Scientific Committee, Vth International Workshop on Electromagnetic Wave Scattering (EWS 2008), Antalya, Turkey, October 22-25, 2008
- 2006-2008: Secretary, Japan National Committee of URSI
- 2006-2007: Member, Technical Program Committee, 2007 URSI International Symposium on Electromagnetic Theory (EMTS 2007), Ottawa, Canada, July 26-28, 2007
- 2005-2006: Member, Scientific Committee, IVth International Workshop on Electromagnetic Wave Scattering (EWS 2006), Kocaeli, Turkey, September 18-22, 2006
- 2001-2006: Member, Japan National Committee of URSI
- 2004-2005: Editor-in-Chief, “URSI National Report 2001-2004,” Japan National Committee of URSI, September 2005
- 2001-2002: Editor-in-Chief, “URSI National Report 1998-2001,” Japan National Committee of URSI, July 2002
- 1999-2002: Chair, Local Arrangements Committee, 2001 Asia-Pacific Radio Science Conference (AP-RASC’01), Tokyo, Japan, August 1-4, 2001

PIERS Activities (since 2002):

Listed below are principal, PIERS positions (current and past).

- 2012-present: General Vice Chair, 2014 Progress In Electromagnetics Research Symposium (PIERS 2014 Tel Aviv), Tel Aviv, Israel, March 16-20, 2014
- 2012-present: General Co-Chair, 2013 Progress In Electromagnetics Research Symposium (PIERS 2013 Stockholm), Stockholm, Sweden, August 12-15, 2013
- 2012-present: General Vice Chair, 2013 Progress In Electromagnetics Research Symposium (PIERS 2013 Taipei), Taipei, Taiwan, March 25-28, 2013
- 2006-present: Member, PIERS International Standing Committee
- 2010-2012: General Vice Chair, 2012 Progress In Electromagnetics Research Symposium (PIERS 2012 Moscow), Moscow, Russia, August 19-23, 2012
- 2010-2012: Vice Chair, Organization Committee, 2012 Progress In Electromagnetics Research Symposium (PIERS 2012 Moscow), Moscow, Russia, August 19-23, 2012
- 2011-2012: Member, International Advisory Committee, 2012 Progress In Electromagnetics Research Symposium (PIERS 2012 Kuala Lumpur), Kuala Lumpur, Malaysia, March 27-30, 2012
- 2010-2011: Member, International Advisory Committee, 2011 Progress In Electromagnetics Research Symposium (PIERS 2011 Suzhou), Suzhou, China, September 12-16, 2011
- 2010-2011: Member, International Advisory Committee, 2011 Progress In Electromagnetics Research Symposium (PIERS 2011 Marrakesh), Marrakesh, Morocco, March 20-23, 2011
- 2009-2010: Member, International Advisory Committee, Progress In Electromagnetics

- Research Symposium (PIERS 2010 Cambridge), Cambridge, Massachusetts, USA, July 5-8, 2010
- 2009-2010: Member, International Advisory Committee, Progress In Electromagnetics Research Symposium (PIERS 2010 Xi'an), Xi'an, China, March 22-26, 2010
 - 2007-2009: General Vice Chair, 2009 Progress In Electromagnetics Research Symposium (PIERS 2009 Moscow), Moscow, Russia, August 18-21, 2009
 - 2007-2009: Vice Chair, Organization Committee, 2009 Progress In Electromagnetics Research Symposium (PIERS 2009 Moscow), Moscow, Russia, August 18-21, 2009
 - 2008-2009: Member, International Advisory Committee, Progress In Electromagnetics Research Symposium (PIERS 2009 Beijing), Beijing, China, March 23-27, 2009
 - 2007-2008: Member, Technical Program Committee, 2008 Progress In Electromagnetics Research Symposium (PIERS 2008 Cambridge), Cambridge, Massachusetts, USA, July 2-6, 2008
 - 2007-2008: Member, Technical Program Committee, 2008 Progress In Electromagnetics Research Symposium (PIERS 2008 Hangzhou), Hangzhou, China, March 24-28, 2008
 - 2006-2007: Member, Technical Program Committee, 2007 Progress In Electromagnetics Research Symposium (PIERS 2007 Prague), Prague, Czech Republic, August 27-30, 2007
 - 2006-2007: Member, Technical Program Committee, 2007 Progress In Electromagnetics Research Symposium (PIERS 2007 Beijing), Beijing, China, March 26-30, 2007
 - 2004-2006: Technical Chair, 2006 Progress In Electromagnetics Research Symposium (PIERS 2006 Tokyo), Tokyo, Japan, August 2-5, 2006
 - 2004-2006: Chair, Technical Program Committee, 2006 Progress In Electromagnetics Research Symposium (PIERS 2006 Tokyo), Tokyo, Japan, August 2-5, 2006
 - 2005-2006: Member, Technical Program Committee, 2006 Progress In Electromagnetics Research Symposium (PIERS 2006 Cambridge), Cambridge, Massachusetts, USA, March 26-29, 2006
 - 2004-2005: Member, Technical Program Committee, 2006 Progress In Electromagnetics Research Symposium (PIERS 2005 Hangzhou), Hangzhou, China, August 22-26, 2005

Other Activities (since 2002):

- 2012-present: Member, Editorial Board, TWMS Journal of Applied and Engineering Mathematics
- 2012-present: Member, Organizing Committee, 2014 International Symposium on Electromagnetic Compatibility (EMC'14/Tokyo), Tokyo, Japan, May 13-16, 2014
- 2011-present: Member, Technical Committee on Electromagnetic Theory, The Institute of Electrical Engineers of Japan (IEEJ)
- 2000-present: Chief Editor, International Series of Monographs on Advanced Electromagnetics (Science House, Tokyo)
- 2011-2012: Vice Chair, Workshop on Large-Scale Modeling, Sunne, Sweden, May 1-6, 2012

- 2010-2011: Associate Editor, Editorial Committee, "Special Issue on Recent Progress in Electromagnetic Theory and Its Application," IEICE Transactions on Electronics, Vol. 94, No. 1, January 2011
- 2008-2011: Chair, Technical Committee on Electromagnetic Theory, The Institute of Electrical Engineers of Japan (IEEJ)
- 2008-2011: Member, Steering Committee, Fundamentals and Materials Society, The Institute of Electrical Engineers of Japan (IEEJ)
- 2009-2010: Associate Editor, Editorial Committee, "Special Issue on Recent Progress in Electromagnetic Theory and Its Application," IEICE Transactions on Electronics, Vol. 93, No. 1, January 2010
- 2008-2009: Member, Organizing Committee, 2009 International Symposium on Electromagnetic Compatibility, Kyoto (EMC'09/Kyoto), Kyoto, Japan, July 20-24, 2009
- 2008-2009: Guest Editor, "Special Issue on Electromagnetic Technologies for Forecasting and Monitoring Natural Hazards," IEEJ Transactions on Fundamentals and Materials, Vol. 129, No. 12, December 2009
- 2008-2009: Guest Editor, "Special Issue on Recent Progress in Computational Electromagnetics and Its Applications," IEEJ Transactions on Fundamentals and Materials, Vol. 129, No. 10, October 2009
- 2007-2008: Member, Technical Program Committee, 2008 International Conference on Mathematical Methods in Electromagnetic Theory (MMET*08), Odessa, Ukraine, June 29-July 2, 2008
- 2006-2008: Guest Editor, "Recent Advances in Electromagnetic Scattering - Special Issue on the IVth International Workshop on Electromagnetic Wave Scattering (EWS 2006)," Progress In Electromagnetics Research B, Vol. 6, 2008
- 2005-2006: Member, Technical Program Committee, 2006 International Conference on Mathematical Methods in Electromagnetic Theory (MMET*06), Kharkov, Ukraine, June 26-July 1, 2006
- 2004-2005: Member, Advisory Committee, Japan Bank of International Cooperation (JBIC)
- 2003-2004: Member, Technical Program Committee, 2004 International Conference on Mathematical Methods in Electromagnetic Theory (MMET*04), Dniepropetrovsk, Ukraine, September 14-17, 2004
- 2000-2002: Guest Editor, "Special Issue on 2001 Far Eastern School-Seminar on Mathematical Modeling and Numerical Analysis (FESS-MMNA'01)," Telecommunications and Radio Engineering, Vol. 58, No. 1&2, 2002
- 2000-2002: Co-Chair, Technical Committee, 2001 Far-Eastern School-Seminar on Mathematical Modeling and Numerical Analysis (FESS-MMNA'01), August 22-28, 2001, Nakhodka, Russia

7. List of Publications (since 2002)

Dr. Kobayashi has authored and co-authored more than 200 journal and conference papers. Main publications are listed below.

1. K. Kobayashi, "Solutions of wave scattering problems for a class of the modified Wiener-Hopf geometries," Special Issue on Recent Progress in Computational Electromagnetics and Its Applications, IEEJ Transactions on Fundamentals and Materials (invited paper), submitted.
2. K. Kobayashi, "Radar cross section of a finite parallel-plate waveguide with four-layer material loading," Keynote Lecture, Second International Conference on Telecommunications and Remote Sensing (ICTRS 2013), July 11-12, 2013, Noordwijkerhout, The Netherlands, to be published in the Proceedings.
3. Y. Kudo, E. I. Veliev, S. Koshikawa, and K. Kobayashi, "Plane wave diffraction by a material strip (II) - the case of H polarization," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-12-155, November 2012 (in Japanese), to be published.
4. M. Nishibayashi, E. I. Veliev, S. Koshikawa, and K. Kobayashi, "Plane wave diffraction by a material strip (I) - the case of E polarization," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-12-154, November 2012 (in Japanese), to be published.
5. T. Nishizawa and K. Kobayashi, "Wiener-Hopf analysis of the H-polarized plane wave diffraction by a rectangular cylinder," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-12-153, November 2012 (in Japanese), to be published.
6. K. Kobayashi, "Radar cross section analysis of two canonical, parallel-plate waveguide cavities with material loading," Proc. First International Conference on Telecommunications and Remote Sensing (ICTRS 2012), pp. 55-59, August 2012 (invited paper).
7. T. Eizawa, T. Matsuyama, and K. Kobayashi, "Plane wave diffraction by a strip with sinusoidal corrugation," Proc. 2012 Progress In Electromagnetics Research Symposium (PIERS 2012 Moscow), p. 260, August 2012.
8. T. Saiki, S. Koshikawa, and K. Kobayashi, "Radar cross section analysis of a thin material strip," Proc. 2012 Korea-Japan EMT/EMC/BE Joint Conference (KJJC-2012), May 2012 (invited paper), p. 213.
9. J. P. Zheng, E. H. Shang, and K. Kobayashi, "Radar cross section analysis of a finite parallel-plate waveguide with four-layer material loading," Proc. Workshop on Large-Scale Modeling, May 2012 (invited paper), No. LSPA6-6.
10. Y. Okubo, S. Koshikawa, E. I. Veliev, and K. Kobayashi, "Plane wave diffraction by a resistive strip," Proc. 2012 IEICE General Conference, No. C-1-16, March 2012.
11. R. Kaneko, S. Koshikawa, and K. Kobayashi, "Plane wave diffraction by a semi-infinite parallel-plate waveguide with five different material loading," Proc. 2012 IEICE General Conference, No. C-1-15, March 2012.

12. T. Matsuyama and K. Kobayashi, "Plane wave diffraction by a sinusoidal strip: combined perturbation and Wiener-Hopf analysis," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-11-152, November 2011.
13. R. Nakayama and K. Kobayashi, "Wiener-Hopf analysis of the plane wave diffraction by a rectangular cylinder," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-11-151, November 2011.
14. T. Saiki, S. Koshikawa, and K. Kobayashi, "Wiener-Hopf analysis of the plane wave diffraction by a thin material strip: the case of E polarization," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-11-150, November 2011.
15. T. Saiki, S. Koshikawa, and K. Kobayashi, "Plane wave diffraction by a thin material strip," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-11-053, May 2011.
16. A. B. Samokhin and K. Kobayashi, "Numerical solution of low-frequency 3-D electromagnetic scattering on dielectric structures by using generalized Chebyshev iteration method," Proc. 2010 Asia-Pacific Radio Science Conference (AP-RASC'10), No. B1-1, September 2010 (invited paper).
17. J. P. Zheng, E. H. Shang, and K. Kobayashi, "Wiener-Hopf analysis of the plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading," Proc. 2010 URSI International Symposium on Electromagnetic Theory (EMTS 2010), pp. 1120-1123, August 2010 (invited paper).
18. J. P. Zheng and K. Kobayashi, "Diffraction by a semi-infinite parallel-plate waveguide with sinusoidal wall corrugation," Proc. 11th International Conference on Electromagnetics in Advanced Applications (ICEAA 09), pp. 621-624, September 2009 (invited paper).
19. K. Kobayashi, Yu. V. Shestopalov, and Yu. G. Smirnov, "Investigation of electromagnetic diffraction by a dielectric body in a waveguide using the method of volume singular integral equation," SIAM Journal on Applied Mathematics, Vol. 70, No. 3, pp. 969-983, August 2009.
20. E. H. Shang, J. P. Zheng, and K. Kobayashi, "RCS of a finite parallel-plate waveguide with four-layer material loading," Proc. 2009 Progress In Electromagnetics Research Symposium (PIERS 2009 Moscow), p. 75, August 2009.
21. J. P. Zheng and K. Kobayashi, "H-polarized plane wave diffraction by a semi-infinite parallel-plate waveguide with sinusoidal wall corrugation," Proc. 2009 Progress In Electromagnetics Research Symposium (PIERS 2009 Moscow), p. 63, August 2009.
22. J. P. Zheng and K. Kobayashi, "Wiener-Hopf analysis of the diffraction by a semi-infinite parallel-plate waveguide with sinusoidal corrugation," Proc. 2009 Progress In Electromagnetics Research Symposium (PIERS 2009 Beijing), p. 490, March 2009.
23. E. H. Shang and K. Kobayashi, "RCS analysis of a terminated, semi-infinite parallel-plate waveguide with four-layer material loading: Rigorous Wiener-Hopf approach," Proc. 2009

- Progress In Electromagnetics Research Symposium (PIERS 2009 Beijing), p. 489, March 2009.
24. J. P. Zheng and K. Kobayashi, "Combined Wiener-Hopf and perturbation analysis of the H-polarized plane wave diffraction by a semi-infinite parallel-plate waveguide with sinusoidal wall corrugation," Progress In Electromagnetics Research B, Vol. 13, pp. 203-236, February 2009.
 25. E. H. Shang and K. Kobayashi, "Diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading: the case of H polarization," Progress In Electromagnetics Research B, Vol. 12, pp. 139-162, January 2009.
 26. J. P. Zheng and K. Kobayashi, "Diffraction by a semi-infinite parallel-plate waveguide with sinusoidal wall corrugation: combined perturbation and Wiener-Hopf analysis," Progress In Electromagnetics Research B, Vol. 13, pp. 75-110, January 2009.
 27. E. H. Shang and K. Kobayashi, "Diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading," Progress In Electromagnetics Research B, Vol. 12, pp.1-33, January 2009.
 28. K. Kobayashi, "RCS of two canonical, parallel-plate waveguide cavities: rigorous Wiener-Hopf approach," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-08-95, November 2008.
 29. J. P. Zheng and K. Kobayashi, "Diffraction by a semi-infinite parallel-plate waveguide with sinusoidal corrugation: Combined perturbation and Wiener-Hopf analysis," Proc. Vth International Workshop on Electromagnetic Wave Scattering (EWS 2008), p. 7.1, October 2008 (invited paper).
 30. E. H. Shang and K. Kobayashi, "Diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading," Proc. IVth URSI Turkish National Congress, p. 1, October 2008 (invited paper).
 31. K. Kobayashi, "Wiener-Hopf analysis of the RCS of two canonical waveguide cavities," Proc. 2008 IEICE Electronics Society Conference, Vol. 1, pp. S.42-S.43, September 2008.
 32. J. P. Zheng and K. Kobayashi, "Diffraction by a finite parallel-plate waveguide with four-layer material loading," Proc. XXIX URSI General Assembly, No. B02.6, August 2008.
 33. E. H. Shang and K. Kobayashi, "Diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading: the case of H polarization," Proc. XXIX URSI General Assembly, No. B01.10, August 2008.
 34. K. Kobayashi, "Wiener-Hopf analysis of canonical scattering problems," 2008 Progress In Electromagnetics Research Symposium (PIERS 2008 Cambridge), No. 4P5-7, July 2008 (invited paper).
 35. J. P. Zheng and K. Kobayashi, "Radar cross section analysis of a finite parallel-plate waveguide with four-layer material loading: part I - the case of E polarization," Proc. 2008 Progress In Electromagnetics Research Symposium (PIERS 2008 Cambridge), p. 356, July 2008.

36. E. H. Shang and K. Kobayashi, "Radar cross section analysis of a finite parallel-plate waveguide with four-layer material loading: part II - the case of H polarization," Proc. 2008 Progress In Electromagnetics Research Symposium (PIERS 2008 Cambridge), p. 357, July 2008.
37. J. P. Zheng and K. Kobayashi, "Plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading: part I - the case of E polarization," Progress In Electromagnetics Research B, Vol. 6, pp. 1-36, June 2008.
38. E. H. Shang and K. Kobayashi, "Plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading: part II - the case of H polarization," Progress In Electromagnetics Research B, Vol. 6, pp. 267-294, June 2008.
39. J. P. Zheng and K. Kobayashi, "Plane wave diffraction by two parallel, corrugated half-planes: evaluation of the scattered field," Proc. 2008 Progress In Electromagnetics Research Symposium (PIERS 2008 Hangzhou), p. 698, March 2008.
40. E. H. Shang and K. Kobayashi, "Plane wave diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading: the case of H polarization," Proc. 2008 Progress In Electromagnetics Research Symposium (PIERS 2008 Hangzhou), p. 699, March 2008.
41. J. P. Zheng and K. Kobayashi, "Wiener-Hopf analysis of the plane wave diffraction by two parallel, corrugated half-planes: evaluation of the scattered field," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-07-92, October 2007.
42. E. H. Shang and K. Kobayashi, "Diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading: the case of H polarization," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-07-93, October 2007.
43. J. P. Zheng and K. Kobayashi, "Combined perturbation and Wiener-Hopf analysis of the diffraction by two parallel, corrugated half-planes," Proc. 2007 Progress In Electromagnetics Research Symposium (PIERS 2007 Prague), pp. 78-84, August 2007.
44. E. H. Shang and K. Kobayashi, "Wiener-Hopf analysis of the diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading," Proc. 2007 Progress In Electromagnetics Research Symposium (PIERS 2007 Prague), pp. 72-77, August 2007.
45. J. P. Zheng and K. Kobayashi, "Wiener-Hopf analysis of the plane wave diffraction by two parallel, corrugated half-planes," Proc. 2007 URSI International Symposium on Electromagnetic theory (EMTS 2007), No. O11-32-6, July 2007.
46. E. H. Shang and K. Kobayashi, "Diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading," Proc. 2007 URSI International Symposium on Electromagnetic theory (EMTS 2007), No. O11-32-2, July 2007.
47. J. P. Zheng and K. Kobayashi, "Plane wave diffraction by two parallel, corrugated half-planes," Technical Report on Electromagnetic Theory, The Institute of Electrical

- Engineers of Japan, No. EMT-07-39, May 2007.
48. E. H. Shang and K. Kobayashi, "Diffraction by a terminated, semi-infinite parallel-plate waveguide with four-layer material loading: the case of H polarization," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-07-38, May 2007.
 49. N. V. Budko, A. B. Samokhin, and K. Kobayashi, "A new iterative method for low-frequency 3-D electromagnetic scattering on dielectric bodies," Proc. 2007 Progress In Electromagnetics Research Symposium (PIERS 2007 Beijing), p. 1206, March 2007.
 50. K. Kobayashi and S. Koshikawa, "Comparative RCS study of two canonical, parallel-plate waveguide cavities with three-layer material loading," Proc. 2007 Progress In Electromagnetics Research Symposium (PIERS 2007 Beijing), p. 1214, March 2007.
 51. K. Kobayashi and S. Koshikawa, "Wiener-Hopf analysis of the radar cross section of two canonical, parallel-plate waveguide cavities with material loading," Proc. IVth International Workshop on Electromagnetic Wave Scattering (EWS 2006), pp. 2.25-2.30, September 2006 (invited paper).
 52. J. P. Zheng and K. Kobayashi, "Plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading: part I - the case of E polarization," Proc. IVth International Workshop on Electromagnetic Wave Scattering (EWS 2006), pp. 2.31-2.36, September 2006.
 53. E. H. Shang and K. Kobayashi, "Plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading: part II - the case of H polarization," Proc. IVth International Workshop on Electromagnetic Wave Scattering (EWS 2006), pp. 2.49-2.53, September 2006.
 54. J. P. Zheng and K. Kobayashi, "Plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading: the case of E polarization," Proc. 2006 Progress In Electromagnetics Research Symposium (PIERS 2006 Tokyo), No.4P7-3, August 2006.
 55. E. H. Shang and K. Kobayashi, "Plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading: the case of H polarization," Proc. 2006 Progress In Electromagnetics Research Symposium (PIERS 2006 Tokyo), No.4P7-4, August 2006.
 56. M. Voytko, D. B. Kuryliak, K. Kobayashi, and Z. T. Nazarchuk, "SH-wave scattering by the finite crack at the plane interface of two dissimilar elastic solids: application for non-destructive analysis," Proc. 2006 International Conference on Mathematical Methods in Electromagnetic Theory (MMET*06), pp. 455-457, June-July 2006.
 57. J. P. Zheng and K. Kobayashi, "Plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading: the case of E polarization," Technical Report on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-05-40, November 2005.
 58. E. H. Shang and K. Kobayashi, "Plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading: the case of H polarization," Technical Report

- on Electromagnetic Theory, The Institute of Electrical Engineers of Japan, No. EMT-05-41, November 2005.
59. Z. T. Nazarchuk and K. Kobayashi, "Mathematical modeling of electromagnetic scattering from a thin penetrable target," *Progress In Electromagnetic Research*, Vol. 55, pp. 95-116, 2005.
 60. D. B. Kuryliak, K. Kobayashi, S. Koshikawa, and Z. T. Nazarchuk, "Wiener-Hopf analysis of the diffraction by a circular waveguide cavity," *Journal of the Institute of Science and Engineering, Chuo University*, Vol. 10, pp. 45-52, 2005.
 61. D. B. Kuryliak, K. Kobayashi, S. Koshikawa, and Z. T. Nazarchuk, "Wiener-Hopf analysis of the electromagnetic waves radiation from a circular waveguide cavity with an impedance termination: vector diffraction problem," *Proc. 2004 International Conference on Mathematical Methods in Electromagnetic Theory (MMET*04)*, pp. 251-253, September 2004.
 62. D. B. Kuryliak, K. Kobayashi, S. Koshikawa, and Z. T. Nazarchuk, "Wiener-Hopf analysis of the electromagnetic waves radiation from a circular waveguide cavity: vector diffraction problem," *Proc. 2004 Progress In Electromagnetics Research Symposium (PIERS 2004 Pisa)*, pp. 863-866, March 2004.
 63. D. B. Kuryliak, K. Kobayashi, S. Koshikawa, and Z. T. Nazarchuk, "Rigorous techniques for solution of wave diffraction problems by conical screens: field patterns analysis," *Proc. 2004 Progress In Electromagnetics Research Symposium (PIERS 2004 Pisa)*, pp. 867-869, March 2004.
 64. D. B. Kuryliak, K. Kobayashi, S. Koshikawa, and Z. T. Nazarchuk, "Wiener-Hopf analysis of the diffraction by a circular waveguide cavity: axial symmetric case," *Proc. 2003 Progress In Electromagnetics Research Symposium (PIERS 2003 Hawaii)*, p. 231, October 2003.
 65. D. B. Kuryliak, K. Kobayashi, S. Koshikawa, and Z. T. Nazarchuk, "Diffraction by a truncated, semi-infinite cone: comparison of the Wiener-Hopf and semi-inversion methods," *Proc. 2003 Progress In Electromagnetics Research Symposium (PIERS 2003 Hawaii)*, p. 321, October 2003.
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