List of publications: Pavel Ripka

Books

P. Ripka (ed.): Magnetic Sensors and Magnetometers, Artech, Boston, ISBN 1-58053-057-5, 2001, 2nd edition 2021.

P.Ripka, A. Tipek (eds.): Modular Courses on Modern Sensors, BEN, Prague, ISBN 80-7300-129-2, 2003.

P. Ripka, A. Tipek (ed): Modern Sensors Handbook, ISTE 2007, ISBN 978-1-905209-66-8

Book chapters:

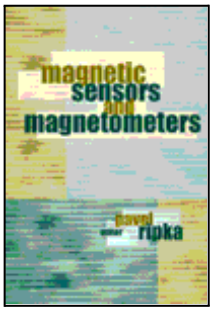
P. Ripka: Precise Vectorial Magnetic Field Sensors, in S. Yurish, M. Gomes (eds): Smart Sensors and MEMS, pp. 203 – 228, NATO ASI Series, Kluwer, ISBN 1402029276, 2005

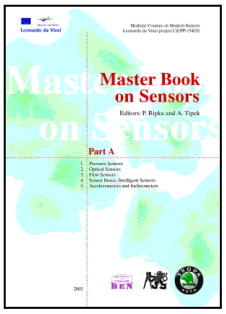
P. Ripka: Magnetic Sensors - Principles and Applications, in J. Buschow (ed.) Encyclopedia of Materials: Science and Technology, Elsevier 2007, pp. 1-11 (electronic update)

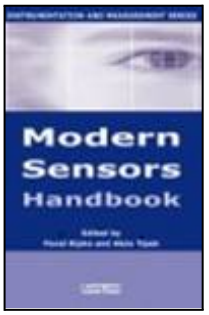
P. Ripka: Improving the Accuracy of Magnetic Sensors, in Mukhopadhyay, S.C, Huang, R.Y.M. (eds): Sensors, Springer 2008, ISBN 978-3-540-69030-6

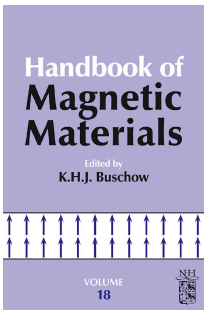
P. Ripka, K. Závěta, Magnetic Sensors: Principles and Applications. In: K.H.J. Buschow, editors: Handbook of Magnetic Materials, Vol 18, Elsevier, 2009, pp. 347-420. ISBN: 978-0-08-054814-2

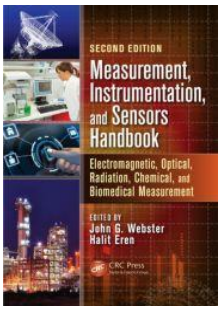
Pavel Ripka: Electric Current Sensors, pp. 16-1 to 16-14, in: J. G. Webster (ed.): Measurement, Instrumentation, and Sensors Handbook, CRC Presss 2014, ISBN 9781439848913











a) articles in SCI journals (*in English*)

1. M. Mirzaei, P. Ripka, J. Svatos, and J. Machac: Modeling of Linear Eddy Current Speed Sensors for Moving Nonmagnetic Bars Using a Novel Combined Finite Difference and Space Harmonic Method, acc. for IEEE Transactions on Instrumentation & Measurement
2. M. Mirzaei, P. Ripka: Comparison of Eddy Current Sensors for Speed Measurement of Rotating Iron Shafts, early access IEEE Transactions on Industry Applications 10.1109/TIA.2025.3600201
3. A. K. Appukuttan, J. T. Vaheeda, S. Vijayakumar, P. Ripka: A k-Independent Wireless Readout Technique for Resistive Sensors in Series-RLC Configuration: Design, Implementation, and Challenges, IEEE Trans. Instrum. Meas. 74 (2025), 1-10 https://doi.org/10.1109/TIM.2025.3599248
4. J. Maier, P. Ripka, and P. Chen: High-frequency Low-power Micro-fluxgate, IEEE Sensors Letters 2025, Vol. 9, Iss 8 pp. 1-4 , DOI: 10.1109/LSENS.2025.3585367
5. P. Lipovský, P. Ripka, K. Draganová, A. Polakovič: Precise Measurement of Magnetic Field for Geophysical, Space and Security Applications, IEEE Sensors Journal 2025, 23998-24007, DOI: 10.1109/JSEN.2025.3570654
6. M. Mirzaei, J. Maier, P. Ripka: Linearity Range Enhancement of LVDT Position Sensors Using Optimized Coils, IEEE Sensors Journal 2025, pp. 24441-24450, DOI: 10.1109/JSEN.2025.3568547
7. M. Mirzaei, P. Ripka, J. Maier: Design Optimization of a Position Sensor for Linearity Range Extension, IEEE T Magnetics 61 (2025) iss. 9, pp. 1-5 doi: 10.1109/TMAG.2025.3534916

8. Platil, A.; Novotný, D.; Ripka, P. Improved Method for Linear Position Sensing through Conductive Wall, IEEE Trans. Magn. 61 (2025), 4001204, doi 10.1109/TMAG.2024.3490955
9. M. Mirzaei, J. Maier, P. Ripka:. A linear variable differential transducer for position measurement with an external armature. Measurement. 2025, 242 1-9. DOI 10.1016/j.measurement.2024.115978

10. J. Maier, P. Ripka, P. Chen: CMOS-based Micro-fluxgate with Racetrack Core and Solenoid Coils, Sensors and Actuators A 379 (2024) 115886, https://doi.org/10.1016/j.sna.2024.115886
11. P. Ripka, M. Mirzaei, J. Maier: Flat Magnetic X-Y Alignment sensor, IEEE Sensors Letters Vol. 8, Iss. 7, 2024, pp. 1-4 10.1109/LSENS.2024.3414375
12. P. Ripka, M. Mirzaei, N. George: Crosstalk in an Uncompensated Gapped-core Contactless Current Transducer, Measurement,Vol. 234, July 2024, 114910, https://doi.org/10.1016/j.measurement.2024.114910
13. M. Mirzaei, P. Ripka: 3D Analytical Modeling of Rotational Eddy Current Speed Sensor, IEEE Sens. J. 24 (2024), pp.10277-10286 doi 10.1109/JSEN.2024.3366348
14. M. Mirzaei, P. Ripka, V. Grim, Z. Hazdra: An axial flux eddy current sensor with perpendicular coils for speed measurement, Sensors and Actuators 365 (2024), 114917, https://doi.org/10.1016/j.sna.2023.114917
15. N. George, P. Ripka, and V. Grim: C-Shape Busbar with Frequency Invariant Points for Wideband Current Measurement, IEEE Trans. Ind. Electronics 71 (2024) Iss 6 pp 6446-6456 doi 10.1109/TIE.2023.3299010

16. N. George. P. Ripka: Rectangular Busbar with Circular Sensing Part for Wideband Current Measurement, IEEE Trans. Instr. Meas. 72 (2023), 9509008. doi 10.1109/TIM.2023.3289559
17. M. Mirzaei, P. Ripka: Rotating Speed Measurement Using an Optimized Eddy Current Sensor, Measurement 221, 113547, 2023 https://doi.org/10.1016/j.measurement.2023.113547
18. D. Hrakova, P. Ripka, T. Kmječ: Enhancing Performance of Fluxgate Sensors Using Annealed Nanocrystalline Core, IEEE Trans. Magn, Volume: 59 (2023), Issue: 9, pp 1-9, doi 10.1109/TMAG.2023.3296205
19. M. Mirzaei, P. Ripka. V. Grim: An Eddy Current Speed Sensor with a Novel Configuration of Longitudinal and Transversal Coils, Sensors and Actuators A 352 (2023), 114201, https://doi.org/10.1016/j.sna.2023.114201
20. M. Mirzaei, P. Ripka. V. Grim: A Novel Structure of an Eddy Current Sensor for Speed Measurement of Rotating Shafts, IEEE Trans. Energy Conv.38 (2023), Iss. 1, pp.170-179, https://doi.org/10.1109/TEC.2022.3195921

21. D. Hrakova, P. Ripka, A. Laposa, D. Novotny, J. Kroutil, V. Povolný, O. Kaman, P. Veverka: Inkjet-printed Mn-Zn ferrite nanoparticle core for fluxgate, JMMM Vol. 563, 1 December 2022, 170003 doi 10.1016/j.jmmm.2022.170003
22. D. Hrakova, P. Ripka, M. Butta: Sensitivity and noise of parallel fluxgate sensor with amorphous wire cores, JMMM Vol.563, 1 Dec. 2022, 169981doi.org/10.1016/j.jmmm.2022.169981
23. P. Ripka, M. Mirzaei, P. Mlejnek: Effect of external DC field on current transformers with amorphous and nanocrystalline cores, JMMM Volume 563, 1 December 2022, 170019 doi.org/10.1016/j.jmmm.2022.170019
24. M. Mirzaei, P. Ripka. V. Grim: A Linear Eddy Current Speed Sensor for Speed Measurement of Conductive Objects, IEEE Trans. Ind. Appl. 58 (2022) Iss. 6, pp 7847-7856, DOI: 10.1109/TIA.2022.3198625
25. M. Mirzaei, P. Ripka. J. Machac, V. Grim, J. Svatos: Design and modeling of an axisymmetric eddy current sensor for speed measurement of nonmagnetic rods, Sens Act. A 344 (2022), 113728, https://doi.org/10.1016/j.sna.2022.113728
26. M. Mirzaei, P. Ripka. V. Grim: An Axial Airgap Eddy Current Speed Sensor, IEEE Transactions on Industrial Electronics 69 (2002), 9586-9595, DOI10.1109/TIE.2021.3113001
27. P. Ripka, D. Hrakova, M. Mirzaei, O. Kaman: Apparent permeability of ordered magnetically soft nanowire arrays, AIP Advances **12**, 035128 (2022); https://doi.org/10.1063/9.0000316
28. V. Grim, P. Ripka: Rogowski Coil with Ferromagnetic Powder Core, Magnetics Letters 13 (2022), pp. 1-4, Art no. 8102304 10.1109/LMAG.2022.3143470
29. M. Mirzaei, P. Ripka, V. Grim, L. Jelinek and J Svatos: Thickness Evaluation of Hollow Nonmagnetic Cylinders Utilizing a Motional Eddy Current, Measurement Vol. 189 (2022), 110463, https://doi.org/10.1016/j.measurement.2021.110463
30. P. Ripka , M. Mirzaei, J.Blazek: Magnetic position sensors, Measurement Science and Technology 33 (2022) Number 2, 022002, https://doi.org/10.1088/1361-6501/ac32eb
31. P. Ripka, D. Hrakova, V. Grim, M. Mirzaei: Multiwire Parallel Fluxgate Sensors, IEEE Trans Magn. 58 Iss. 2 (Feb. 2022), pp 1-5, 10.1109/TMAG.2021.3093017

32. M. Mirzaei, P. Ripka. V. Grim: A Simplified 2D Equivalent Model for Magnetic Wire Array, IEEE Trans Magn. 58 Iss. 2 (Feb. 2022), pp 1-5, 10.1109/TMAG.2021.3085485

33. M. Mirzaei, P. Ripka. V. Grim: A Position Sensor with Novel Configuration of Linear Variable Differential Transformer, IEEE Sensors Journal 21 (2021), 22899 - 22907, 10.1109/JSEN.2021.3105879
34. M. Mirzaei, P. Ripka: A Linear Eddy Current Speed Sensor with a Perpendicular Coils Configuration, IEEE Trans. Vehicular Technology 70 (2021), pp. 3197-3207, 10.1109/TVT.2021.3065924
35. P. Ripka, V. Grim, M. Mirzaei: The apparent permeability and the amplification factor of magnetic wires and wire arrays JMMM 527, 2021, 167726
36. M. Mirzaei, P. Ripka, J. Vyhnanek, A. Chirtsov, and V. Grim, "Modeling of hysteresis loops using rational and power functions," J. Magn. Mag. Mat. 522, 167563, 2021 10.1016/j.jmmm.2020.167563
37. P. Ripka, V. Grim, M. Mirzaei, D. Hrakova, J. Uhrig, F. Emmerich, C. Thielemann, J. Hejtmanek, O. Kaman, and R. Tesar: Modelling and measurement of magnetically soft nanowire arrays for sensor applications, Sensors 2021, 21(1), 3, https://doi.org/10.3390/s21010003

38. M. Mirzaei, P. Ripka, V. Grim, A. Chirtsov: A Novel Position Sensor With a Conical Iron Core, IEEE Trans. Instrum. and meas.Vol. 69 , Iss 11, Nov. 2020, pp. 9178 - 9189 ,doi: 10.1109/TIM.2020.2999691
39. M. Mirzaei, P. Ripka, V. Grim, A. Chirtsov: Design and Optimization of an Eddy Current Speed Sensor for Rotating Rods, IEEE Sensors Journal 20 (2020), pp. 12241-12251, doi: 10.1109/JSEN.2020.3000442
40. M. Mirzaei, P. Ripka, V. Grim: A Novel Eddy Current Speed Sensor with Ferrite E-Core, IEEE Magn. Lett. Vol. 11, Iss. 1 article # 8102905,pp.1-5 DOI: 10.1109/LMAG.2020.2993501
41. P. Ripka, M. Mirzaei, A. Chirtsov, V. Grim: Temperature stability of the Transformer Position Transducer for Pneumatic Cylinder, JMMM Vol. 503, 1 June 2020, 166636
42. M. Mirzaei, P. Ripka, A. Chirtsov, and V. Grim: Eddy Current Speed Sensor with Magnetic Shielding, JMMM 502, 15 May 2020, 166568 https://doi.org/10.1109/JSEN.2020.3000442
43. M. Mirzaei, J. Machac, P. Ripka, A. Chirtsov, J. Vyhnanek, and V. Grim: Design of a Flat Type Magnetic Position Sensor Using Finite Difference Method. IET Science, Measurement & Technology Vol. 14, Iss.5, pp. 514 - 524, doi 10.1049/iet-smt.2019.0197
44. V. Grim, P. Ripka, J. Bauer: DC current sensor using switching-mode excited in-situ current transformer, JMMM Vol. 500 (2020) 166360 doi.org/10.1016/j.jmmm.2019.166370
45. M. Mirzaei, J. Vyhnanek, A. Chirtsov, V. Grim, P. Ripka: Design and Modeling of a Linear Speed Sensor with a Flat Type Structure and Air Coils, JMMM Vol. 495 (2020) article #165834,pp 1-10, https://doi.org/10.1016/j.jmmm.2019.165834
46. P. Ripka , J.Blazek, M. Mirzaei, P. Lipovský, M. Šmelko, K.Draganova: Inductive position and speed sensors, Sensors 2020, 20(1), 65; https://doi.org/10.3390/s20010065

47. A. Chirtsov, P. Ripka, V. Grim: Three-Phase Busbar Current Transducer, IEEE Magnetics Letters 10 (2019), Iss. 1 pp 1-5, article # 8110805 www.doi.org/10.1109/LMAG.2019.2957257
48. P. Ripka, P. Mlejnek, P. Hejda, A. Chirtsov, J. Vyhnanek: Rectangular array current transducer with integrated fluxgate sensors, Sensors 2019, 19(22), 4964; https://doi.org/10.3390/s19224964
49. P. Ripka, V. Grim, A. Chirtsov: A 3-Phase Current Transducer based on microfluxgate sensors, Measurement Vol. 146, November 2019, pp. 133-138 https://doi.org/10.1016/j.measurement.2019.06.028
50. M. Mirzaei, P. Ripka, J. Vyhnanek, A.Chirtsov, V. Grim: Rotational Eddy Current Speed Sensor, IEEE Transactions on Magnetics vol. 55, no. 9, pp. 1-10, Sept. 2019, Art no. 4003710, 10.1109/TMAG.2019.2918163
51. P. Ripka: Contactless measurement of electric current using magnetic sensors, Technisches Messen Vol. 89 (2019), Issue 10, pp. 586-598 10.1515/teme-2019-0032
52. P. Ripka, M. Mirzaei, A. Chirtsov, J. Vyhnanek: Transformer Position Transducer for Pneumatic Cylinder, Sensors Act. A 294 (2019) 91–101
53. Ch. Zheng et al.: Magnetoresistive Sensor Development Roadmap (Non-Recording Applications), IEEE Transactions on Magnetics 55 Iss: 4 , April 2019 article # 0800130 DOI: 10.1109/TMAG.2019.2896036
54. M. Mirzaei, P. Ripka, A. Chirtsov, J. Vyhnanek: Eddy current linear speed sensor, IEEE Transactions on Magnetics, Vol. 55 (2019) Issue: 1, Article #4000304

55. P. Ripka; A. Chirtsov: Busbar current transducer with suppression of external fields and gradient;, IEEE Transactions on Magnetics Vol. 54 Issue: 11, 2018, Article # 4002504
56. M. Mirzaei; P. Ripka: Analytical Functions of Magnetization Curves for High Magnetic Permeability Materials, IEEE Transactions on Magnetics Vol. 54 Issue: 11, 2018, Article # 2002105
57. P. Ripka, A. Chirtsov, M. Mirzaei: Inductance position sensor for pneumatic cylinder, AIP Advances 8, 048001 (2018)
58. M. Mirzaei, P. Ripka, and A. Chirtsov: The effect of conductor permeability on electric current transducers, AIP Advances 8, 047506 (2018)

59. J. Vyhnanek, P. Ripka: Experimental comparison of the low frequency noise of small-size magnetic sensors, IEEE Trans. Magn., Vol. 53 (2017), Issue 4, paper # 4001304
60. Pavel Ripka; Vaclav Grim; Vojtech Petrucha: A busbar current sensor with frequency compensation: IEEE Trans. Magn. Vol. 53 (2017), Issue 4, paper # 4000505
61. P. Ripka; A.Chirtsov: Influence of External Current on Yokeless Electric Current Transducers, IEEE Transactions on Magnetics, 2017, Volume: 53, Issue: 11, paper # 4003904 , pp. 1-4, DOI: 10.1109/TMAG.2017.2715075
62. P. Ripka; A. Chirtsov, V. Grim: Contactless Piston Position Transducer with Axial Excitation, IEEE Transactions on Magnetics 2017, Volume: 53, Issue: 11, 4002504, pp. 1-4, DOI: 10.1109/TMAG.2017.2715073
63. P. Ripka, J. Vyhnánek, A. Chirstov: Crossfield response of industrial magnetic sensors, International Journal of Applied Electromagnetics and Mechanics, vol. 55, no. S1, pp. 39-47, 2017
64. P. Mlejnek, P. Ripka: Off-center error correction of AMR yokeless current transducer, Journal of Sensors, Volume 2017 (2017), Article ID 6057634, 7 pages

65. M. Butta, M. Přibil, P. Ripka,: Noise dependence on temperature in fluxgates with electroplated core, Sensors and Actuators, 244, 15 June 2016, 310-313, ISSN 0924-4247, http://dx.doi.org/10.1016/j.sna.2016.04.018.
66. P. Ripka, Michal Přibil, V. Petrucha, V. Grim, and K.Draxler: A fluxgate current sensor with an amphitheater busbar, IEEE Trans. Magn. 52 (2016), paper # 4002004 doi:10.1109/TMAG.2016.2540523
67. P. Ripka, K. Draxler, R. Styblikova: DC-compensated Current Transformer, Sensors 16 (2016), 114; doi:10.3390/s16010114
68. P. Ripka, M. Přibil, V. Schaffer, M. Snoeij: Flugate sensor with pulse feedback, IEEE Trans. Magn. 52 (2016) Issue: 5 Article Number: 4000704 doi: 10.1109/TMAG.2016.2524516
69. Butta, M.; Ripka, P. Effect of electroplated Ni1-xFex composition on the field-induced anisotropy IEEE Trans. Magn. 52 (2016) Issue: 5 Article Number: 4000604 DOI: 10.1109/TMAG.2016.2522563

70. Vcelak, Jan; Ripka, Pavel; Zikmund, Ales: Long-Range Magnetic Tracking System, IEEE Sens. J. Vol. 15 (2015) 491-496, DOI: 10.1109/JSEN.2014.2345576
71. P. Ripka, M. Pribil, M. Butta: Magnetostriction offset of fluxgate sensors, IEEE Trans Magn Volume: 51 (2015) , Issue: 1 , Part: 1, Article#: 4000504 DOI: 10.1109/TMAG.2014.2349171, ,
72. M. Butta, P. Ripka, M. Janosek and M. Pribil: Electroplated FeNi ring cores for fluxgates with field induced radial anisotropy J. Appl. Phys. 117 , 17A722 (2015) ; http://dx.doi.org/10.1063/1.4914874
73. A. Zikmund, P. Ripka, R. Ketzler, H. Harcken, and M.Albrecht: Precise scalar calibration of Braunbek system, IEEE Trans Magn. Volume: 51 , Issue: 1 , Part: 1 DOI: 10.1109/TMAG.2014.2357783 2015 , Article#: 4000704
74. J. Bauer, P. Ripka, K. Draxler, R. Styblikova: Demagnetization of Current Transformers, IEEE Trans Magn Volume: 51 , Issue: 1 , Part: 1 DOI: 10.1109/TMAG.2014.2356574 Publication Year: 2015 , Article#: 4000604
75. J. Včelák, P. Ripka, A. Zikmund, M. Butta: Precise magnetic sensors for navigation and prospection, Journal of Superconductivity and Novel Magnetism 28 (2015) Issue: 3 Special Issue: SI Pages: 1077-1080
76. M. Butta, L. Kraus, P. Ripka: Effect of stress induced anisotropy on the noise of ring-core, IEEE Trans. Magn. 51 (2015), Iss.1, Article Number: 4001104
77. P. Sarkar, J. Vcelak, R.K. Roy, A. K. Panda, A. Mitra and P. Ripka "Co -based amorphous material for giant magneto-impedance and fluxgate sensing cores", IEEE Transactions on Magnetics 51 (2015), Iss. 11, paper # 2002404, DOI 10.1109/TMAG.2015.2431120
78. V. Petrucha, P. Ripka: Rotational speed measurement and angular position reference for a cryogenic propellant electric pump, J. of Elect. Eng.-Elektrotechnicky Casopis, Vol. 66, Iss. 7 Special Issue: SI Pages: 199-202 Published: DEC 2015

79. P. Sarkar, M. Janosek, V. Petrucha, J. Vcelak and P. Ripka: Study of Stress Induced Anisotropy in METGLAS 2714A, IEEE Trans Magn. Vol. 50 (2014), Article#: 2007603
80. P. Ripka, J. Vyhnanek, J. Janosek, J. Vcelak: AMR Proximity Sensor with Inherent Demodulation, IEEE Sensors Journal 2014, 3119 – 3123, DOI 10.1109/JSEN.2014.2325406
81. M. Butta, M. Janosek, P. Ripka, L. Kraus, R. Kammouni: Influence of magnetostriction of NiFe electroplated film on the noise of fluxgate, IEEE Trans Magn Vol. 50 (2014), Paper number 4006504

82. P. Ripka, M. Pribil, M. Butta: Fluxgate offset study, IEEE Trans Magn, Vol. 50 (2014), 400680PCB4 DOI 10.1109/TMAG.2014.2329777

83. P. Ripka, A. Zikmund: Testing and Calibration of Magnetic Sensors, Sensors Letters Vol. 11, 2013, pp. 44-49
84. Ripka, P. - Draxler, K. - Styblíková, R.: AC/DC Current Transformer with Single Winding IEEE Trans Magn. 50 (2014) Article Number: 8400504 pp. 1-4, DOI 10.1109/TMAG.2013.2285878 WOS:000343032900096
85. Nováček, P. - Roháč, J. - Šimánek, J. - Ripka, P.: Metal Detector Signal Imprints of Detected Objects In: IEEE Transactions on Magnetics. 2013, vol. 49, no. 1, p. 69-72. ISSN 0018-9464.
86. P. Ripka, K. Draxler, R. Styblikova: Measurement of DC Currents in the Power Grid by Current Transformer, IEEE Trans. Magn. 49 (2013), 73-76.
87. Zikmund, A. - Ripka, P.: Calibration of the 3D Coil System's Orthogonality In: IEEE Transactions on Magnetics. 2013, vol. 49, no. 1, p. 66-68. ISSN 0018-9464.
88. A. Platil, J. Tomek, O. Pribula, M. Janosek, J. Fischer, and P. Ripka: Magnetopneumography Using Optical Position Reference, Sensor Letters Vol. 11, 2013, pp. 69-73
89. Ludek Kraus, Mattia Butta, and Pavel Ripka: Magnetic Anisotropy and Giant Magnetoimpedance in NiFe Electroplated on Cu Wires, Sensors Letters Vol. 11, 2013, pp. 53-55
90. P. Ripka, Mattia Butta, and Antonin Platil: Temperature Stability of AMR Sensors, Sensors Letters Vol. 11, 2013, pp. 74-77
91. M. Butta, P. Ripka, M. Vázquez, G. Infante, L. Kraus: Microwire Electroplated Under Torsion as Core for Coil-Less Fluxgate, Sensors Letters Vol. 11, 2013, pp. 50-52

92. M. Janosek, P. Ripka, F. Ludwig, and M. Schilling: Single-core fluxgate gradiometer with simultaneous gradient and homogeneous feedback operation, J. Appl. Phys. 111, 07E328 (2012); doi: 10.1063/1.3676238
93. Tomek, J.; Platil, A.; Janosek, M.; Zikmund, A.; Ripka, P.: Suppression of Environmental Noise in Magnetopneumography by the Use of Higher Order Gradients, IEEE Trans. Magn. 48 (2012) pp. 1317 - 1319 ; doi: 10.1109/TMAG.2011.2172200
94. Novacek, P.; Rohac, J.; Ripka, P.: Complex Markers for a Mine Detector, IEEE Trans. Magn. 48 (2012) pp. 1489 - 1492; doi: 10.1109/TMAG.2011.2172200
95. P. Ripka, P. Kaspar, J. Saneistr: Geometrical selectivity of current sensors, Przeglad elektotechniczny 88 (2012), Iss. 5a, pp. 38
96. Platil, A. - Ripka, P.: Fluxgate Sensor and Real Operating-mode B-H Curve In: Journal of Electrical Engineering. 2012, vol. 63, no. 7s, p. 118-121.
97. J. Tomek, A. Platil, M. Janosek, O. Pribula, J. Fischer, P. Ripka: Magnetopneumography - Incorporation of Optical Position Reference, Journal of Electrical Engineering. 2012, vol. 63, no. 7s, p. 122-125.
98. A. Zikmund, P. Ripka: Uncertainty analysis of calibration of the 3-D coil systems, J. Electr. Eng. 2012, vol. 63, no. 7/s, p. 90-93.
99. Butvin, P.B. - Janošek, M. - Ripka, P. - Butvinová, B.B. - Švec sr., P.Š. - et al.: Field Annealed Closed-path Fluxgate Sensors Made of Metallic-glass Ribbons In: Sensors and Actuators. 2012, vol. 2012, no. 184, p. 72-77. ISSN 0924-4247.
100. Vyhnánek, J.; Janošek, M.; Ripka, P. AMR Gradiometer for Mine Detection Sensors and Actuators. 2012, 186 100-104. ISSN 0924-4247.

101. Pavel Ripka ; Mattia Butta ; Fan Jie ; Xiaoping Li: Sensitivity and Noise of Wire-Core Transverse Fluxgate, IEEE Trans. Magn. 46 (2010), 654-657, doi 10.1109/TMAG.2009.2033554
102. M. Butta, P. Ripka, Joaquín Pérez Navarrete, M. Vazquez: Double coil-less fluxgate in bridge configuration, IEEE Trans. Magn. 46 (2010), 532-535, doi 10.1109/TMAG.2009.2033339
103. S. Atalay, P. Ripka, N. Bayri: Coil-less fluxgate effect in (Co0.94Fe0.06)72.5Si12.5B15 amorphous wires, Journal of Magnetism and Magnetic Materials 322 (2010), 2238-2243.
104. M. Janosek, M. Butta, P. Ripka: Two sources of cross-field error in racetrack fluxgate, J. Appl. Phys. 107, 09E713 (2010); doi:10.1063/1.3337721
105. Mattia Butta, Michal Janosek, and Pavel Ripka: Field-Programmable Gate Array-based fluxgate magnetometer with digital integration, J. Appl. Phys. 107, 09E714 (2010); doi:10.1063/1.3360773
106. Ripka P, Janosek M: Advances in Magnetic Field Sensors, IEEE Sens. J. 10 (2010) Issue: 6 , 1108-1116
107. Butta, M.; Ripka, P.; Infante, G.; Badini-Confalonieri, G. A.; Vazquez, M: Magnetic Microwires With Field-Induced Helical Anisotropy for Coil-Less Fluxgate, IEEE Trans. Magn. 46 (2010), Issue: 7 pp. 2562 – 2565, doi: 0.1109/TMAG.2010.2045885
108. V. Petrucha, P. Mlejnek, P. Ripka, M. Chvojka, P. Posolda: Tester for space micro-accelerometer, Sensors and Actuat. A 162 (2010) Iss. 2 Pages: 324-328
109. P. Ripka, Electric current sensors: a review, Meas. Science and Technology 21 (2010) Iss. 11, pp.1-23.
110. M. Butta, P. Ripka: Temperature stability of coil-less fluxgate offset, J. Electr. Eng. 2010, vol. 61, no. 7/s, p. 10-12.
111. P. Ripka, M. Janosek, M. Butta, S. W. Billingsley, E. Wakefield: Crossfield error in fluxgate and AMR sensors, Journal of Electrical Engineering. 2010, vol. 61, no. 7/s, p. 13-16.

112. A. Zikmund, P. Ripka: Scalar Calibration of the 3-D Coil System, J. Electr. Eng. 2010, vol. 61, no. 7/s, p. 39-41.
113. M. Janošek, P. Ripka: PCB fluxgate gradiometer measuring dBx/dx and dBx/dy, J. Electr. Eng. 2010, vol. 61, no. 7/s, p. 7–9.

114. J. Tomek, A. Platil, P. Ripka: Multiple Layer Scanning in Magnetopneumography, IEEE Sens. J. 9 (2009) Iss. 4 pp. 377-383 http://dx.doi.org/10.1109/JSEN.2009.2014409
115. M. Janošek, P. Ripka: PCB sensors in fluxgate magnetometer with controlled excitation, Sens. Act. 151 (2009) 151, 141-144 http://dx.doi.org/10.1016/j.sna.2009.02.002
116. Janošek, M. - Ripka, P. - Platil, A.: Magnetic Markers Detection using PCB Fluxgate Array, J. Appl. Phys. 105, 07E717 (2009) http://link.aip.org/link/?JAPIAU/105/07E717/1
117. Petrucha, V. - Ripka, P. - Kašpar, P. - Merayo, J.: Automated System for the Calibration of Magnetometers, J. Appl. Phys. 105, 07E704 (2009) http://link.aip.org/link/?JAPIAU/105/07E704/1 doi:10.1063/1.3062961
118. M. Butta, G. Infante, P. Ripka, G. A. Badini-Confalonieri, and M. Vázquez: M-H loop tracer based on digital signal processing for low frequency characterization of extremely thin magnetic wires, Rev. Sci. Instrum. 80, 083906 (2009); doi:10.1063/1.3206264 http://link.aip.org/link/?RSINAK/80/083906/1
119. M. Butta, P. Ripka, G.A. Badini, M. Vázquez, G. Infante: Bi-metallic magnetic wire with insulating layer as core for orthogonal fluxgate, IEEE Trans. Magn. 45 (2009), 4443-4446
120. P. Ripka, M. Janosek, M. Butta: Crossfield Sensitivity in AMR Sensors, IEEE Trans. Magn. 45 (2009), 4514 - 4517
121. M. Butta, P. Ripka: Linearity of pulse excited coil-less fluxgate, IEEE Trans. Magn. 45 (2009), 4455 – 4458
122. J. Janosek, P. Ripka: Current-output pcb fluxgate, Sensors Letters 7 (3): 423-428 Sp. Iss. SI JUN 2009
123. P. Ripka, M. Butta: Origin of the Crossfield Effect in AMR Sensor, Sensors Letters 7 (2009) Sp. Iss. SI 259-262
124. M. Butta, P. Ripka: Investigation of Crossfield Effect in AMR Sensor, Sensors Letters 7 (2009) Sp. Iss. SI 322-324
125. P. Ripka, X.P. Li, J. Fan: Multiwire core fluxgate, Sens. Act. A156 (2009), 265-268 doi:10.1016/j.sna.2009.06.006
126. M. Butta, P. Ripka: Model for coilless fluxgate, Sens. Act. A 156 (2009), 269-273 doi:10.1016/j.sna.2009.08.026
127. P. Ripka, M. Butta, Xiaoping Li, Fan Jie: Sensitivity and noise of wire-core transverse fluxgate, IEEE Trans. Magn. 46 (2010), 654-657
128. P. Mlejnek, M. Vopálenský, P. Ripka: AMR current measurement device, Sens. Act. A 141 (2008), 649-653
129. J. Tomek, P. Mlejnek, V. Janásek, P. Ripka, P. Kašpar and J. Chen: The precision of gastric motility and volume sensing by implanted magnetic sensors, Sensors and Actuators A 142 (2008), 34-39.
130. J. Kubík and P. Ripka: Racetrack fluxgate sensor core demagnetization factor, Sens. Act. A 143 (2008), 237-244
131. P. Ripka, M. Butta, M. Malatek, S. Atalay and F.E. Atalay: Characterisation of magnetic wires for fluxgate cores, Sensors and Actuators A, 145–146 (2008) 23–28 doi:10.1016/j.sna.2007.10.008
132. P. Ripka: Sensors based on bulk soft magnetic materials: advances and challenges, JMMM 320 (2008), pp. 2466-2473, doi:10.1016/j.jmmm.2008.04.079
133. M.Butta, P. Ripka, S. Atalay, F. E. Atalay, X.P. Li: Fluxgate effect in twisted magnetic wire, JMMM 320 (2008), e974-e978 doi:10.1016/j.jmmm.2008.04.176
134. M. Malátek, P. Ripka, L. Kraus: Temperature Offset Drift of GMI Sensors, Sens Act A, 147 (2008) 415–418, doi:10.1016/j.sna.2008.05.016
135. M. Butta, P. Ripka: Two-Domain Model For Orthogonal Fluxgate, IEEE Trans Magn. 44 (2008), 3992 – 3995. http://dx.doi.org/10.1109/TMAG.2008.2003505

136. J. Kubik, L. Pavel, P. Ripka, P. Kaspar: Low-power Printed Circuit Board Fluxgate Sensor, IEEE SENSORS JOURNAL 7 (1-2): 179-183 JAN-FEB 2007
137. Z.J. Zhao, X.P. Li, H.L. Seet, X.B. Qian, P. Ripka: Comparative study of the sensing perfomance of orthogonal fluxgate sensors with different amorphous sensing elements, Sens. Act. A 136 (2007) pp. 90-94.
138. Ripka P, Lewis AM, Kubik J: Mine detection in magnetic soils, Sensor Letters 5 (1): 15-18 MAR 2007
139. Kubik J, Janosek M, Ripka P: Low-power fluxgate sensor signal processing using gated differential integrator Sensor Letters 5 (1): 149-152 MAR 2007
140. Ripka P, Lewis AM, Kaspar P, et al.: DC gradiometers for bomb detection: Scalar versus vectorial Sensor Letters 5 (1): 271-275 MAR 2007
141. Tomek J, Mlejnek P, Janasek V, et al.: Gastric motility and volume sensing by implanted magnetic sensors Sensor Letters 5 (1): 276-278 MAR 2007
142. Tomek J, Platil A, Ripka P: Magnetopneumography - Advances in measurement procedure, modeling and inversion using artificial neural networks INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS 25 (1-4): 401-406 2007
143. J. Tomek, A.Platil, P. Ripka: Application of Neural Networks Inversion in Magnetopneumography, IJAEM Volume 26, ISSN 1383-5416, Number 3-4/2007 pp. 285-290

144. P. Ripka, W.G. Hurley: Excitation efficiency of fluxgate sensors, Sensors and Actuators A 129 (2006), pp.75-79, http://dx.doi.org/10.1016/j.sna.2005.09.047

145. J. Včelák, P. Ripka, A. Platil, J. Kubík and P. Kašpar: Errors of AMR compass and methods of their compensation Sensors and Actuators A129 (2006), pp 53-57. http://dx.doi.org/10.1016/j.sna.2005.09.048
146. J. Kubik, J. Vcelak, P. Ripka: On Cross-Axis Effect of the Anisotropic Magnetoresistive Sensors, Sensors & Actuators A129 (2006), pp 15-19. http://dx.doi.org/10.1016/j.sna.2005.09.053
147. J. Kubík, L. Pavel, P. Ripka: PCB racetrack fluxgate sensor with improved temperature stability, Sensors and Actuators A 130 (2006): 184-188. http://dx.doi.org/10.1016/j.sna.2005.12.027
148. J. Tomek, A. Platil, P. Ripka, P. Kaspar: Application of fluxgate gradiometer in magnetopneumography, Sensors and Actuators A 132 (2006) 214–217 http://dx.doi.org/10.1016/j.sna.2006.02.033
149. Fan J, Li XP, Ripka P: Low power orthogonal fluxgate sensor with electroplated Ni80Fe20/Cu wire, Journal of Applied Physics 99 (8): Art. No. 08B311 APR 15 2006
150. J. Kubik, P. Ripka: Noise spectrum of pulse excited fluxgate sensor, Sensors & Actuators A, 132 (1): 236-240 Sp. Iss. SI NOV 8 2006 http://dx.doi.org/10.1016/j.sna.2006.02.004

151. A. Cerman, A. Kuna, P. Ripka, J.M.G. Merayo: Digitalization of highly precise fluxgate magnetometers, Sensors and Actuators A 121/2 (2005) pp 421-429.
152. P. Ripka, J. Kubik, M. Duffy, W. G. Hurley, S. O'Reilly: Current sensor in PCB technology, IEEE Sensors Journal 5 (2005), 433-438 http://dx.doi.org/10.1109/JSEN.2005.845187
153. M.C. Duffy, S.C. Tang, P. Ripka: Application of fluxgate excitation circuit to magnetic sensing, Sensors and Actuators A 123/124, (2005), 430-437. http://dx.doi.org/10.1016/j.sna.2005.02.034
154. J. Včelák, P. Ripka, J. Kubík, A. Platil and P. Kašpar: AMR navigation systems and methods of their calibration, Sensors and Actuators A 123/124, (2005), 122-128 http://dx.doi.org/10.1016/j.sna.2005.02.040
155. Malátek, M. - Ripka, P. - Kraus, L.: Double-core GMI Current Sensor . IEEE Transactions on Magnetics. 2005, vol. 41, no. 10, s. 3703-3705. http://dx.doi.org/10.1109/TMAG.2005.854810
156. Tipek, A. – O'Donnell, T. – Ripka, P. – Kubík, J.: Excitation and temperature stability of PCB fluxgate sensor. IEEE Sensor Journal, 2005, vol. 5, no. 6, s. 1264-1269. http://dx.doi.org/10.1109/JSEN.2005.859239

157. Ripka P: Selected papers from EUROSENSORS XVI - Prague, Czech republic - 15-18 September 2002 – Preface Sens Act. A 110 Issue: 1-3 Pages: 1-2 Published: FEB 1 2004
158. M. Vopalensky, P. Ripka, J. Kubik, M. Tondra: Improved GMR sensor biasing design. Sensors & Actuators.A 110 (2004), 254-258. http://dx.doi.org/10.1016/j.sna.2003.09.036
159. M. Vopalensky, P. Ripka, J. Kubik, M. Tondra: Alternating biasing of SDT sensors. Sensors & Actuators.A 110 (2004), 182-186. http://dx.doi.org/10.1016/j.sna.2003.10.044
160. S. C. Tang , M. C. Duffy, P. Ripka, W. G. Hurley: Excitation Circuit for Fluxgate Sensor using Saturable Inductor, Sensors and Actuators A 113 (2004), 156-165
161. A. Tipek, P. Ripka, T. O'Donnell, J. Kubik: PCB technology used in fluxgate sensor construction , Sensors and Actuators A Volume 115 (2004), Iss. 2-3, pp. 286-292
162. Ripka P: Current sensors using magnetic materials, Journal of optoelectronics and advanced materials 6 (2): 587-592, 2004

163. P. Ripka, L. Kraus, A. Platil, P. Kašpar, M. Malatek: Permalloy GMI sensor, Journal of Magnetism and Magnetic Materials 254-255 (2003), pp. 633-635
164. A. Platil, P. Ripka, P. Kaspar: Sampling measurements with digital hysteresisgraph, Journal of Magnetism and Magnetic Materials 254-255 (2003), pp. 108-110
165. P. Ripka, M. Vopálenský, A. Platil, M. Döscher, K. -M. H. Lenssen and H. Hauser: AMR magnetometer. Journal of Magnetism and Magnetic Materials 254-255 (2003), pp. 639-641
166. M. Vopalensky, P. Ripka, A. Platil: Precise Magnetic Sensors, Sensors & Actuators A 106 (2003), 38-42.
167. P. Ripka: Advances in Fluxgate sensors, Sensors & Actuators A 106 (2003), 8-14.
168. A. Cerman, P. Ripka: Towards fully digital magnetometer, Sensors & Actuators A 106 (2003), 34-37
169. H. Hauser, P.L. Fulmek, P. Haumer, M. Vopalensky, P. Ripka, Flipping field and stability in anisotropic magnetoresistive senzors, Sensors & Actuators A 106 (2003), 34-37, pp 121-125.

170. P. Ripka, S.O.Choi, S. Kawahito , A. Tipek, M. Ishida: Micro-fluxgate sensor with closed core, Sensors and Actuators A 91 (2001), pp. 65-69.
171. P. Ripka, S.O.Choi, A. Tipek, S. Kawahito, M. Ishida: Symmetrical core improves micro-fluxgate sensors, Sensors and Actuators A 92 (2001), 30 - 36.
172. H. Hauser, L. Kraus, P. Ripka: Giant magnetoimpedance sensors, IEEE Instrumentation & Measurement Magazine Vol. 4, Iss.2 , June 2001, pp. 28-32.

173. P. Ripka, S.O.Choi, A. Tipek, S. Kawahito, M. Ishida: Pulse excitation of the micro-fluxgate sensors, IEEE T MAGN 37: (4) pp. 1998-2000 Part 1 JUL 2001

174. P.Ripka, W. Billingsley: Crossfield effect at fluxgate, Sensors and Actuators A 81 (2000), 176-179.
175. P. Ripka, F. Primdahl: Tuned current-output fluxgate, Sensors and Actuators A82 (2000), 160-165.
176. P. Ripka, G. Vertesy: Sensors based on soft magnetic materials, Panel Discussion at SMM 14, JMMM 215-216 (2000), 795-799.
177. P. Ripka: New Directions in Fluxgate Sensors, JMMM 215-216 (2000), 735-739.
178. P. Ripka: Race-track fluxgate with adjustable feedthrough, Sensors and Actuators A 85 (2000), pp. 227-231.

179. Ripka, M. Tondra, J. Stokes, and R. Beech: AC - driven AMR and GMR magnetoresistors, Sensors and Actuators A Vol. 76 (1999), pp. 227-232.

180. Ripka, P. Kaspar: Portable fluxgate magnetometer, Sensors and Actuators A 68 (1998), pp. 286-289.
181. P.Ripka, W. Billingsley: Fluxgate: Tuned vs. untuned output, IEEE Trans. Magn. 34 (1998), 1303-1305.

182. P. Ripka, P. Navratil: Fluxgate sensor for magnetopneumometry, Sensors and Actuators A60 (1997), 76-79

183. P. Ripka: AC - excited magnetoresistive sensor, J. Appl. Phys. 79 (8) , 1996, pp. 5211-5213.
184. P. Ripka: Noise and Stability of Magnetic Sensors, J. Magn. Magn. 157/158 (1996), pp. 424-427.

185. P. Ripka, F. Primdahl, O.V. Nielsen, J.R. Petersen, A.Ranta: AC magnetic field measurement using the fluxgate, Sensors and Actuators A, 46-47 (1995), pp. 307-311
186. O.V.Nielsen, J.R.Petersen, F.Primdahl, P.Brauer, B.Hernando, A.Fernandez, J.M.G.Merayo, P.Ripka: Development, construction and analysis of the 'Orsted' fluxgate magnetometer Meas. Sci. Technol. 6 (1995), 1099-1115.

187. Ripka P.: Magnetic sensors for industrial and field applications, Sensors and Actuators A, 42 (1994), No.1-3, pp. 394-397.
188. Primdahl F., Nielsen O.V., Petersen J.R. and Ripka P.: High frequency fluxgate sensor noise, Electronic Letters 30 (1994), No. 6, pp. 481-482.

189. Ripka, P.: Race-track fluxgate sensors, Sensors and Actuators A, 37-38 (1993), pp. 417-421
190. Ripka P., Draxler K., Kašpar P.: Race-track Fluxgate Gradiometer, Electronic Letters 29 (1993) p. 1193-4.

191. Ripka: Review of fluxgate sensors, Sensors and Actuators A, 33 (1992) 129-141.

192. F.Primdahl, P.Ripka, J.R.Petersen, O.V.Nielsen: The Sensitivity Parameters of the Short-Circuited Fluxgate, Meas. Sci. Technol., 2 (1991), 1039- 45.

193. P.Ripka,F.Jireš and M.Macháček: Fluxgate Sensor with Increased Homogeneity, IEEE Trans.Magn., MAG-26 (1990) 2038-2041.
194. P.Ripka: Improved Fluxgate for Compasses and Position Sensors, J.Magn.Magn., 83 (1990) 543-544.

195. P.Ripka: Contribution to the Ring-Core Fluxgate Theory, Physica Scripta, 40 (1989) 544-547.

b) articles in other journals (*in English or in Czech*)

b1. Ripka P.: **Příspěvek k teorii toroidních feromagnetických sond**
(Contribution to the theory of the toroidal fluxgate sensor), Sdìlovací technika 3 (1987) 101-104.

b2. Ripka P., Draxler K.: **Feromagnetické sondy a jejich použití**
(Fluxgate sensors and their applications), Slaboproudý obzor 48 (1987) 105-109.

b3. Draxler K.,Byron P.,Kašpar P.,Ripka P.: **System for Measuring Complex Permeability,**
Electronic Horizons (Slaboproudý obzor) 52 (1991) no. 7-8.

b4. -rip- : **Měřič permeability FEL,**
(Permeability meter FEL).
-rip- : **Programovatelný zdroj magnetisačního proudu,**
(Programmable magnetisation current source), Elektr. Obzor 80 (1991) čís. 6, 230,231.

b5. -rip- : **Elektronický webermetr (fluxmetr) FEL**,
Elektro 9/1991, str. 239-240.

b6. Ripka, P.: **Solid-state Magnetic Field Sensors,**
proc. "MM'92" conference, Electronic Horizon (Slab. Obzor) 53 (1992), 5-6, 93.

b7. Kašpar P., Ripka P.: **Portable magnetometer FEL,**
Proceedings "MM'92" conference. Electronic Horizon. 1992. 5-6. p. 94-95.

b8. Draxler, K.- Kašpar, P. - Ripka, P.: **Complex Permeability Meter CPM-2,**
proc. "MM'92" conference, Slabopr. Obzor (Electr. Horizon), 1992, 5-6, (53), 69.

b9. -pr- : **Nové nástroje pro programování měřicích systémů,**
(New tools for the measuring systems programming), Slaboproudý obzor 54 (1993) s. 24.

b10. P. Kejík, P. Ripka, P. Kašpar, K. Draxler: **DC Current Sensor,**
Senzor journal 1/1995, pp. 7-9.

b11. P. Kašpar, P. Ripka: **Technické problémy vyvolané variacemi mag. pole,**
Elektro 8-9/1996, pp. 270-272.

b12. P. Kejík, P. Ripka, P. Kašpar, K. Draxler: Magnetic Shielding of the precise DC current clamp
proc. MM 98, Journal of Electrical Engineering Vol. 50 (1999),Iss. 8/s pp. 93-96

b13. P. Ripka, P. Navratil, P. Kašpar, K. Švábová: Magnetic properties of the industrial dust
proc. MM 98, Journal of Electrical Engineering Vol. 50 (1999),Iss. 8/s pp. 72-75.

b14. A. Platil, J. Roztocil, P. Kašpar, P. Ripka: AC digital hysteresisgraph
proc. MM 98, Journal of Electrical Engineering Vol. 50 (1999),Iss. 8/s pp. 56-60.

b15. P.Ripka, A. Tipek, P.Kašpar, A. Platil: Calibration and stability of the fluxgate gradiometer
proc. MM 98, Journal of Electrical Engineering Vol. 50 (1999),Iss. 8/s pp. 44-47.

b16. P. Kašpar, P. Ripka: Magnetic Shielding of Computer Monitors
proc. MM 98, Journal of Electrical Engineering Vol. 50 (1999),Iss. 8/s pp. 79-82.

b17. R. Holuša, P. Ripka, P. Kašpar, P. Navrátil, K. Švábová, R. Čuřík, R. Andělová: Příspěvek k diagnostice pneumopatií u svářečů, České pracovní lékařství 1/2001

b18. K. Švábová, P. Ripka, P. Kašpar, P. Navrátil, V. Škoda: Magnetopneumografie - vyšetřovcí metoda ke zjišťování retence prachu v plicích, České pracovní lékařeství 2/2000, 85-90.

b19. P. Ripka: Strukturované studium na ČVUT FEL, Pražská technika 2/2000, 14-16

b20. Michal Vopálenský, Pavel Ripka: Magnetorezistivní senzory - Slaboproudý obzor

b21. Tipek, A. - Kašpar, P. - Platil, A. - Ripka, P. - Cerman, A.: Magnetic Sensors and their Temperature Testing. In: Journal of Electrical Engineering. 2002, vol. 53, no. 10/s, p. 56-58. ISSN 1335-3632.

b22. Platil, A. - Polnický, L. - Kašpar, P. - Ripka, P.: Industrial Applications of Programmable Hall Sensor. In: Journal of Electrical Engineering. 2002, vol. 53, no. 10/s, p. 63-64. ISSN 1335-3632.

b23. Platil, A. - Kašpar, P. - Ripka, P.: Phase Error Compensation in Sampling Hysteresisgraph. In: Journal of Electrical Engineering. 2002, vol. 53, no. 10/s, p. 90-91. ISSN 1335-3632.

b24. M.Malátek,A.Platil,A.Cerman, P. Ripka,: Permalloy GMI Sensor, Journal of Electrical Engineering 10/s, 2002, pp. 195-198, ISSN 1335-3632

b25. Michal Vopálenský, Pavel Ripka, Hans Hauser: Magnetometr s AMR, GMR a SDT senzory, Acta Avionioca, 2003, Vol. 5, No. 8/S, pp. 23-28, ISSN 1335-9479

b26. Platil Antonín, Malátek Michal, Ripka Pavel, Vopálenský Michal: GMI – Magnetometr, Acta Avionioca, 2003, Vol.. 5, No. 8/S, pp. 29-32, ISSN 1335-9479

b27. A. Cerman, P. Ripka, P. Kaspar, A. Tipek, A. Platil: Precise Magnetic Sensors and Magnetometers for Military and Space Applications, Sensors&Transducers, Vol. 38, Issue 12, December 2003, pp. 54-58

b28. Pavel Ripka, Adam Lewis: Eddy Current Metal Detectors – Pulse Vs. Cw, Journal of Electrical Engineering, Vol. 57, No. 12/S, 2006 (Special Issue), pp. 175 – 177I, ISSN 1335-3632

b29. M. Malátek, P. Ripka: Co-Rich Amorphous Material in Fluxgate and GMI Regime, Journal of Electrical Engineering, Vol. 57, NO. 8/S, pp. 77-79

b30. V. Petrucha, P. Ripka: Rotational speed measurement and angular position reference for a cryogenic propellant electric pump, Journal of Electrical Engineering, Vol. 66, NO. 7/S, 2015, pp. 199-202

c) papers in conference proceedings

1983

83/1. P. Ripka: **Kompenzační měřič magnetického pole**,
Fakultní kolo + celostátní kolo SVOČ Brno 1983.

1984

84/1. P. Ripka: **Magnetometr s feromagnetickou sondou**,
Měření magnetických veliein, DT ČSVTS České Budějovice 1984, str. 116-125.

1985

85/1. P. Ripka: **Kompenzovaný teslametr**,
závěrečná výzkumná zpráva o řešení dílčího státního výzkumného úkolu "Syntéza měř. systémů" 1985.

1986

86/1. P. Ripka: **Sondy na druhou harmonickou a s vyhodnocením toku,**
Mìøení magnetických velièin, DT ÈSVTS Èeské Budìjovice 1986.

1987

87/1. P. Ripka: **Contribution to the Ring-Core Fluxgate Theory**,
Soft magnetic materials 8 Conf., Badgastein 1987, pp. 73, 74.

87/2. Ripka P., Ďaďo S.: **Přesnost synchronních detektorů v podmínkách rušení**
(Accuracy of synchronous detectors in noise), Způsoby hodnocení výsledků měření, DT ČSVTS České Budějovice 1987, 54-67.

87/3. Ripka: **Nové typy magnetometrů**
(New types of magnetometers), Nové smery aplikácie magnetometrov v letectve a kosmonautike,
DT ČSVTS Košice 1987 ,175-183.

1988

88/1. Ripka P.: **Měření střídavých a impulsních magnetických polí feromagnetickou sondou,**
(Measurement of AC and impulse fields by fluxgate sensor) Metrologie magnetických velièin, Tábor 1988.

88/2. Velebil J.,Kotek M.,Roztoèil J.,Vrána P.,Ripka P.: **Modulární systém pro simulaci síťových poruch,**
(Modular system for the simulation of the power-line failures) Mìøení, snímaèe a diagnostika, Ostrava 1988

88/3. Draxler K., Hrabák J., Kašpar P., Ripka P.: **Měřič počáteční permeability toroidních vzorků a výseků,**
(Initial permeability meter), Metrologie magnetických velièin III, DT Èeské Budìjovice 1988, str. 53-58.

1989

89/1. Ïaïo S., Podolák S., Ripka P.: **Synchronní filtry pro měřicí techniku,**
(Synchronous filters for measurement technology), Emiscon 1989.

89/2. P.Ripka: **Improved Fluxgate for Compasses and Position Sensors,**
Emma 1989 Rimini Proceedings.

89/3. Velebil J.,Kotek M.,Roztoèil J.,Vrána P.,Ripka P.: **Simulátor síťových poruch,**
(Power-line failures simulator), Elektromagnetická kompatibilita, Praha 1989.

89/4. Dado S., Podolák S., Ripka P.: **Synchronní metody zpracování zarušených signálù,**
(Synchronous methods for evaluation of noisy signals), Vyhodnocení výsledkù mìøení 1989.

1990

90/1. Ripka P.,Jireš F.,Macháèek M.: **Toroidy s vysokou homogenitou**
(High homogeneity toroidal cores), Mìøení magnetických velièin 1990, 47-49.

90/2. Draxler K.,Hrabák J.,Kašpar P.,Ripka P.: **Měřič variací zemského magnetického pole**
(Earth's field variation meter), Mìøení magnetických velièin 1990.

90/3. Ripka P.: **Metrologické parametry lock-in zesilovaèù**
(Metrological parameters of lock-in amplifiers), Metrologie v elektrotechnice 1990.

90/4. P. Ripka, F. Jires and M. Machacek, "Fluxgate sensor with increased homogeneity," 1990 IEEE International Magnetics Conference (INTERMAG), Brighton, UK, 1990, pp. DQ-DQ, doi: 10.1109/INTMAG.1990.734536.

1991

91/1. Byron P.,Draxler K.,Kašpar P.,Ripka P.,Šebesta F.: **Systém pro měření komplexní permeability**
(System for the complex permeability measurement), Emiscon 1991 pp. 48-53.

91/2. Draxler K., Kašpar P.,Ripka P.: **Měření permeability při výrobě permalloyů**
(Permeability measurement in the production of permalloys), Metrapliq 1991 pp. 125-127.

91/3. Ripka P.: **Fluxgate sensors,**
Senzory a senzorové systémy, 1991, Košice, p. 10.

91/4. Draxler K.,Kašpar P.,Ripka P: **Magnetometry ČVUT FEL**,
Senzory a senzorové systémy, 1991, Košice.

91/5. Draxler K.,Kašpar P.,Ripka P.: **Magnetic variation station,**
Senzory a senzorové systemy 1991, Košice, p. 68.

1992

92/1. Ripka, P.: **Low-noise fluxgate sensors,**
Proceedings of the CTU Workshop 92, CTU Prague, January 1992, 163-164.

92/2. Draxler, K.- Kašpar, P. - Ripka, P.: **Complex Permeability Meter,**
Proceedings of the CTU Workshop 92, CTU Prague, January 1992, 163-164.

92/3. Ripka P.: **Measurement of the fluxgate noise spectrum,**
Proc.Imeco TC-4 Int. Symposium "Electrical Measuring Instruments", Vienna, April 1992,
in: OVE Schriftenreihe (Journal of Austrian Electrotechnical Association) No. 2/1993, pp. 207-213.

92/4. Draxler K., Kašpar P., Ripka P.: **Earth's field variation station,**
Proc.Imeco TC-4 Int. Symposium "Electrical Measuring Instruments", Vienna, April 1992,
in: OVE Schriftenreihe (Journal of Austrian Electrotechnical Association) No. 2/1993, pp. 219-223.

92/5. Kašpar P., Draxler K., Ripka P.: **Complex permeability measuring system,**
Proc.Imeco TC-4 Int. Symposium "Electrical Measuring Instruments", Vienna, April 1992,
in: OVE Schriftenreihe (Journal of Austrian Electrotechnical Association) No. 2/1993, pp. 225-229.

92/6. Smolík P. - Ripka P.: **AC Hysteresisgraph,**
proc. "MM'92" conference, Slabopr. Obzor 1992, 5-6, (53), 112.

1993

93/1. Ripka, P. - Sedláček, M. - Janásek, V.: **Ambulatory noise analysis system,**
Proc. of the 6th Imeko TC-4 symposium, Brussels, May 1993, pp.413-419 ISBN 90-9006205-X.

93/2. Ripka P.: **Coherent signal processing in sensor technology,**
Proc. Eurosensors VII conference, Budapest 1993, p. 184.

93/3. Draxler K., Havlíček V., Kašpar P., Mikulec M., Ripka P.: **Computer - Controlled AC Magnetic Measuring System,**
Proceedings of the CTU Workshop 93, CTU Prague, 1993. p.147-148.

93/4. Ripka P.: **New developments in the fluxgate sensors,**
CTU Workshop CVUT, 1993, p. 151.

93/5. Sedláček, M. - Ripka, P.: **Measurement of noise of fluxgate magnetic sensors,**
Messtechnisches Symposium des AHM. Wien : Technische, Universität. 1993. pp. 91-95.

93/6. Ripka: **Sandwich - Type fluxgate sensor,**
Proc. Eurosensors VII conference, Budapest 1993.

1994

94/1. Sedláček M., Ripka P., Janásek V.: **Measurement of low-frequency noise using sigma-delta-ADC-PC measuring system,**
IMEKO World Congress, Torino 1994, Proceedings pp. 741-746.

94/2. Ripka P., Bláha J., Jeřábek J.: **Fluxgate gradiometer for magnetopneumography,**
IMEKO World Congress, paper #133, Torino 1994, Proceedings pp. 1527-1531.

94/3. Ripka P., Smolík P., Roztočil J., Kašpar P.,: **Dynamic Digital Hysteresigraph,**
IMEKO World Congress, Torino 1994, Proceedings pp. 752-756.

94/4. Ripka P., Draxler K., Kašpar P., Sedláček M.: **Fluxgate magnetometers and gradiometers,**
CTU Workshop CTU, Prague 1994, p. 165.

94/5. Draxler K., Kašpar P., Roztočil J., Kocourek P., Ripka P.: **Amorphous and nanocrystalline magnetic materials,**
CTU Workshop CTU, Prague 1994, p. 109.

94/6. Bláha, P. Ripka, J. Podlešák, J. Jeřábek:
Measuring system for study of micromagnetic properties of various biological subjects,
Abstract book of BEMS conference, p.166, Copenhagen, Denmark, 1994.

94/7. Petr Kašpar, Pavel Ripka, Karel Draxler: **Measurement of dc magnetic pollution,**
Magnetic Measurements 94 conference, Bratislava, Slovakia,
Journal of Electrical Engineering Vol 45 (1994), No. 8/s pp. 107-110 ISSN 0013-578X.

94/8. K.Draxler, P.Ripka, P.Kašpar: **Measurement of AC permeability of toroidal samples,**
Magnetic Measurements 94 conference, Bratislava, Slovakia,
Journal of Electrical Engineering Vol 45 (1994), No. 8/s pp. 24-26 ISSN 0013-578X.

94/9. Roztočil, K. Draxler, P.Ripka, P. Kašpar: **Software for magnetic measurements,**
Magnetic Measurements 94 conference, Bratislava, Slovakia,
Journal of Electrical Engineering Vol 45 (1994), No. 8/s pp. 68-70 ISSN 0013-578X.

94/10. Ripka, J.R.Petersen, H. Petersen, O.V. Nielsen, F. Primdahl: **Satellite magnetometer,**
Magnetic Measurements 94 conference, Bratislava, Slovakia,
Journal of Electrical Engineering Vol 45 (1994), No. 8/s pp. 107-110 ISSN 0013-578X.

94/11. Hejtmanová, P. Ripka, K. Draxler, P. Kašpar: **DC Hysteresigraph,**
Magnetic Measurements 94 conference, Bratislava, Slovakia,
Journal of Electrical Engineering Vol 45 (1994), No. 8/s pp. 73-75 ISSN 0013-578X.

94/12. Roztočil, V, Haasz, P. Ripka: **Labwindows Projects at CTU Prague,**
National Instruments European User Symposium, Munich, Germany, 1994 (non-paged).

94/13. Ripka, P. Voltová, J. Roztočil, P. Kašpar: **Magnetic measuring systems,**
National Instruments European User Symposium, Munich, Germany, 1994 (non-paged).

1995

95/1. Ripka, K. Draxler, P. Kašpar, J. Roztočil, R.Kasal: **New magnetic materials for measurement technology,**
CTU Workshop CTU, Prague 1995 pp. 451-452

95/2. Ripka, P. Navratil, T.Žák, O. Schneeweis, J. Bláha, J. Jeřábek: **Magnetic properties of the respired particles**
Proc. JCS Seminar on Applied Electromagnetics, Praha 1995, pp. 194-197.

95/3. P.Ripka, D.Němec, J.Roztočil, P.Kaspar: **Fluxgate magnetopneumometer,**
CTU Workshop CTU, Prague 1995, p. 709-710

95/4. Kejík, P. Ripka, P. Kašpar, K. Draxler: **Precise DC current clamp**
JCS Seminar on Applied Electromagnetics, Praha 1995, Proc. pp. 194-197

95/5. Ripka, P. Kašpar, J. Roztočil, A. Platil: **Virtual Complex Permeability Meter**
Imeko TC-4 Symposium, Prague 1995, p.385-390

95/6. Ripka: **Magnetometr pro magnetopneumografii**
Výuka a výzkum v oblasti biomedicínského inenýrství, (Teaching and research within Biomedical Engineering)
1995, CTU Workshop CTU proc. Vol. 2, p.72

95/7. P.Kašpar, P.Ripka: **Měření velmi malých magnetických polí,**
(Measurement of weak magnetic fields), ENVI Brno 1995, proc. p. 92-95

1996

96/1. Ripka, P. Kejík, P. Kašpar, K. Draxler: **Contactless current measurement,**
CTU Workshop CTU, Prague 1996, p. 745-746

96/2. Ripka, P. Navrátil: **Magnetic Detection of Respired Dust,**
CTU Workshop CTU, Prague 1996, p. 909-910

96/3. P.Kašpar, P. Ripka: **Mìøení slabých stejnosmìrných a støídavých mag. polí,**
(Measurement of low DC and AC magnetic fields)
sborník semináře "Elektromagnetické pole a živé systémy", CSVTS-FEL 1996, str. 5

96/4. Ripka: **Technical applications of magnetoresistors**
ISMI conference 1996, Liaoning, China, Program Booklet p. 87

96/5. Kejík, P. Ripka, P. Kašpar, K. Draxler: **Precise DC current sensors**
IMTC, Brussel 1996 pp.1479-1483, ISBN 0-7803-3312-8

96/6. P.Ripka, P.Navrátil: **Magnetic inspection of lungs**
Biosignal, Brno 1996, p. 276-278

96/7. Ripka, P.Kašpar, J. Roztočil, T. Cetl, V. Papež: **Numerical processing in pulse field measurements**
Imeko TC-4 Symposium Budapest 1996, pp.88-91 ISBN 9634204910

96/8. Kejík, K. Draxler, P.Ripka, P.Kašpar: **AC/DC current comparator with amorphous core**
Imeko TC-4 Symposium, Budapest 1996, pp. 141-144 ISBN 9634204910

96/9. P.Ripka, P.Kašpar, J.Roztočil, A.Platil: **Digital techniques in Magnetic Measurements**
Baltic Electronic Conference, Tallin, 1996, pp. 153 ISBN 9985-59-026-0

96/10. Ripka: **Synchronous filters in sensor technology**
Proc. Eurosensors X, Leuven, Belgium 1996, p.347-350 ISBN 90-803282-1-9

96/11. P.Kašpar, P.Ripka, J. Novák, P.Kejík, M. Titěra:**Trojosý magnetometr s èíslicovým výstupem**
(Three-axis magnetometer with digital output)
Snímače, senzory, aplikace, Ostrava,1996, pp. 41-51, (Sensors, transducers and applications National Conference)

1997

97/1. Ripka: **Advances in Magnetic Field Sensors,**
Conf. on Properties and Applications of Magnetic Materials, Chicago, May 1997, Proceedings, Session 1, pp. 1-8.

97/2. Ripka, P. Roženský: **Accelerometric logger**
Proc. Eurosensors XI Warszaw, Poland, September 21-24 1997,Volume 3, pp. 1325-1328

97/3. P. Navrátil, P. Ripka: **Magnetic measurements on the phantom,**
CTU Workshop CTU 1997, pp. 1087-1088

97/4. P.Ripka,P.Navrátil: **Magnetopneumographic system**
Imeko world congress, Tampere, Finland, 1997, proc. Vol. VII, pp. 228-231

97/5. P.Ripka, P.Kašpar, J.Roztočil, A.Platil: **Fully digital magnetic measuring system**
Imeko world congress, Tampere, Finland 1997, Proc. Vol. IVA, pp. 109-114

97/6. P. Ripka, K. Švábová, P. Kašpar: **Magnetometricke stanoveni prumyslovych aerosolu**
(Magnetometric measurement of aerosols), 24. kongres pracovneho lekarstva, Bratislava 1997, sborník s.4

97/7. A. Platil, P. Kejík, P. Navrátil, P. Ripka, P. Kašpar, J. Roztočil, K. Draxler:
Magnetic projects at the Department of Measurement of FEE CTU Prague
conference KSPM 97, Kielce, Poland pp.235-241

97/8. Platil, Ripka, Kašpar, Roztočil: **Digitalni hysteresisgraf realizovany zasuvnymi kartami do PC**
(Digital hysteresisgraph realized by PC plug-in cards), ASR seminar, Ostrava 1997, Czech republic p. 40

97/9. Kašpar P., Ripka P.: **Rozšíření kmitočtového pásma měřicích cívek**
(How to extend frequency range of inductions coils), conf. Biologické systémy a elektromag. pole, Praha 1997, proc. p.21-23

1998

98/1. P.Ripka, W. Billingsley: **Fluxgate: Current vs. voltage output,**
7th joint Intermag-MMM conference, San Francisco, USA, 1998, Proc. p. 329

98/2. A. Platil, P. Ripka: **The magnetometer calibrator,**
CTU Workshop CTU 1997, pp. 333-334

98/3. P. Ripka: **Magnetic sensors for navigation,**
ISMCR conference, Imeko TC 17, Prague 1998, pp. 105-108

98/4. Ripka, M. Tondra, J. Stokes, and R. Beech: **AC - driven AMR and GMR magnetoresistors,**
Proc. Eurosensors XII, Southampton 1998, IOP Publishing, ISBN 0 7503 36 3, pp. 967-969

98/5. P.Ripka, W. Billingsley: **Crossfield effect at fluxgate,**
EMSA, Sheffield 1998 p. 62

98/6. P. Ripka, A. Platil: Analysis of data from 3-axis magnetometer calibrator,
SMC conference, St. Petersburg 1998, Vol. 2, pp. 60-66.

98/7. A. Platil, P. Ripka, J. Roztocil, P. Kaspar: Dynamic hysteresis loops measurement system
NI week, Austin, Texas, 1998

98/8. P.Ripka, A. Tipek, A. Platil, J. Bláha: Application of MFC (Magnetic Field Compensator) for development and calibration of Flux-Gate Magnetometers**,** EEGS Barcelona, September 1998

98/9. P. Kašpar, P. Ripka, P. Navratil, P. Kašpar, K. Švábová: Remanentní pole respirovaného prachu, (Remanent field of the respired dust), Biologické systémy a elmag. pole, Praha 1998

98/10. P. Kašpar, P. Ripka: Magnetometry s feromagnetickými sondami (Magnetometers with fluxgate), Transfer 98, 187-188

98/11. P. Kejík, P. Ripka: Přesnost bezkontaktních proudových senzorů, Sensory - snimace – aplikace, Ostrava 1998, p. 16 (in Czech)

98/12. A. Tipek, P. Ripka, P. Kašpar: Gradiometrický senzor, Sensory - snimace – aplikace, Ostrava 1998, p. 10 (in Czech)

98/13. Švábová, K. - Ripka, P. - Kašpar, P. Détermination de la poussiere ferromagnétique dans le matériel biologique. In: 25emes Journées Nationales de Médecine du Travail. Strasbourg: Hopitaux Universitaires de Strasbourg. 1998. p. 83-86. (in French).

1999

99/1 P. Ripka, P. Kašpar, P. Navrátil, A. Tipek, K. Švábová: Fluxgate magnetopneumography, Imeko World Congress, Osaka 1999 Vol. 8, pp. 161 - 165

99/2 P. Ripka, S. Kawahito: Processing of the fluxgate output signal, Imeko World Congress, Osaka 1999, Vol. 4, pp. 75-80

99/3 P. Ripka, F. Primdahl: Tuning the current-output fluxgate, Transducers 1999, proc. pp. 590 - 593

99/4 P. .Ripka: Magnetic sensors for traffic control, ISMCR 99, Tokyo 1999, proc. Vol. 10, pp. 241-246

99/5 A. Tipek P. Ripka P. Kaspar P. Navratil K. Svabova: Magnetic method of lung diagnostics, CTU Workshop 99 p. 337

99/6 A. Tipek, P. Ripka: Magnetometer for the Mimosa satellite, CTU Workshop 99, p. 200

99/7 P. Ripka P. Kaspar, A. Platil, P. Kejik , A. Tipek: Magnetic sensors , CTU Workshop 99, p. 187

99/8 P. Kejik, P. Ripka, P. Kaspar, K. Draxler: Current Sensors, CTU Workshop 99, p. 179

99/9 A. Platil , P. Ripka, J. Roztocil, P. Kaspar: Accuracy of Sampling Methods in AC Magnetic Measurements, CTU Workshop 99, p. 173

99/10 A. Platil, P. Ripka: Calibration of 3-axis magnetometer, CTU Workshop 99, p. 177

99/11 P. Ripka: Adjustable race-track fluxgate, Eurosensors 99, proc. pp. 441-444

99/12 P. Ripka: New directions in fluxgate sensors, SMM 99, proc. pp. 38

99/13 A. Platil, P. Ripka, P. Kaspar: Magnetické senzory pro kosmické a terenní použití, Transfer 99 (in Czech), ISBN 80-214-1341-7, p. C-29

99/14 P. Kašpar, P. Navrátil, P.Ripka, K. Švábová: Magnetopneumometric measurements in vivo (in Czech), Biologicke systemy a elmag. pole, 1999, ISBN 80-01-01997-7, pp. 12-14

99/15 K. Švábová, P.Ripka P. Kašpar, P. Navrátil: Expozice průmyslovým aerosolům a její stanovení magnetopneumometricky (exposition to industrial aerosols), XXV. kongres pracovního lékařství, Ostrava, 1999 (in Czech), p.43

2000

00/1 P. Kašpar, P. Ripka: Induction coils: voltage versus current output, Imeko World Congress, Vienna 2000, Vol. V, pp. 55-60

00/2 P. Ripka, P. Kašpar, A. Tipek, K. Švábová: Magnetic lung diagnostics using fluxgate, Imeko World Congress, Vienna 2000, Vol. VII, pp. 101-104.

00/3 P.Ripka, P. Kašpar, A. Tipek, A. Platil, Dust Detection by Magnetopneumometry, Workshop CTU 2000, Vol. B, p.525

00/4 A. Platil, P. Ripka, Testing of Synchronous AD converters, Workshop CTU 2000, p.19

00/5 P. Kaspar, P. Ripka: Magnetic shielding of computer monitors, Workshop CTU 2000, p. 17

00/6 A. Cerman, P. Ripka: Testing and Comparing of High-Resolution Converters ADS 1211 and AD 7714, Workshop CTU 2000, p. 19

00/7 Tipek, A. - Cerman, A. - Ripka, P.: The New Method of the Sampling in the Satellite Magnetometer. In: POSTER 2000. Prague: Czech Technical University of Prague. 2000. p. E29

00/8 A. Platil, P. Ripka, J. Roztočil: Two-channel ADC system for hysteresisgraph, ADC workshop, Wien

00/9 A. Cerman, A. Tipek, P. Ripka: Magnetometer for new Czech satellite Mimosa, Aplikovaná elektronika, Plzeň, 2000, pp. 42-46

00/10 A. Platil, P. Ripka, J. Roztočil, P. Kaspar: Factors limiting the accuracy of sampling hysteresisgraph, Baltic electronic conference, Tallin 2000, pp.313-314mimosa

00/11 A.Tipek , P.Ripka, P. Kašpar, P. Navrátil, Dr. Švábová: Magnetopneumography, Baltic electronic conference, Tallin 2000, pp.193-194

00/12 A. Cerman, P. Ripka: Testing and comparing of the high-resolution converters ADS1211 and AD7714, Baltic electronic conference, Tallin 2000 pp.315-316

00/13 P. Ripka, S.O.Choi, S. Kawahito , A. Tipek, M. Ishida: Micro-fluxgate sensor with double-sided core, EMSA 2000, Dresden, pp. 167-168

00/14 P. Kaspar, P. Ripka: AC magnetic field sensors: Fluxgate versus induction coil, Eurosensors 2000, Copenhagen, Book of Abstracts. pp. 423-424 , Proc. pp. 763-766.

00/15 P. Ripka, S.O.Choi, A. Tipek, S. Kawahito, M. Ishida: Symmetrical core improves micro-fluxgate sensors, Eurosensors 2000, Copenhagen, Book of Abstracts. pp. 499-500, Proc. pp. 899-903

00/16 P. Ripka: Excitation of fluxgate sensors, Eurosensors 2000, Copenhagen, Book of Abstracts. pp. 425-426, Proc. pp. 767-770

00/17 A.Platil, M. Vopálenský, P. Ripka: Nové typy magnetorezistorů (New types of magnetoresistors), Nové trendy v rozvoji letectva, Kosice, Slovakia, 2000, Proc. pp. 44-48, in Czech.

00/18 A. Tipek, A. Cerman, P. Ripka, P. Kašpar, A. Platil: Přesné magnetometry (Precise magnetometers), Nové trendy v rozvoji letectva, Kosice, Slovakia, 2000, Proc. pp. 115-120 (in Czech).

00/19 A.Platil, M. Vopálenský, P. Ripka: The AMR magnetometer, MM 2000 confercnce, Prague, Proc. pp. 37-38.

00/20 P. Kašpar, P. Ripka.: Magnetic Field – Problem for the Computer Monitors, Biologické systémy a elektromagnetické pole, Praha 2000, pp. 21-23 (in Czech)

00/21 P. Ripka: Magnetické senzory a magnetometry (Magnetic sensors and Magnetometers), Inovace 2000 (in Czech)

00/22 P. Ripka: Sensor applications of amorphous and nanocrystalline materials, New Materials for Multifunctional Sensor Applications, Tutzing, Dec. 13-15, 2000, Abstract booklet p. 43.

2001

01/1 P. Ripka, S.O.Choi, A. Tipek, S. Kawahito, M. Ishida: Pulse excitation of the micro-fluxgate sensors, Intermag 2001, proc. pp. 506 - 507.

01/2 P. Ripka, A. Tipek: Adjustable Race-Track Fluxgate Sensor, Workshop CTU 2001 vol. A,B, p. 382-383

01/3 A. Platil, P. Ripka, P. Kaspar, J. Roztocil: Sampling Measurement of Dynamic Hysteresis Loops, Workshop CTU 2001

01/4 A. Tipek, A. Platil, P. Kaspar, P. Ripka,: Remanent Field of Human Lungs, Workshop CTU 2001, vol. A,B, p. 798-799

01/5 P. Ripka, A. Platil, P. Kaspar, A. Tipek, L. Kraus, M. Malátek: Permalloy GMI sensor, SMM Conference, Bilbao, 2001, p. 289

01/6 P. Ripka, M. Vopálenský, A. Platil, M. Doscher, K.-M.H. Lennsen, H. Hauser: AMR magnetometer, SMM Conference, Bilbao, 2001, p. 293

01/7 A. Platil, P.Ripka, P. Kaspar, J.Roztocil: Sampling Measurements with Digital Hysteresisgraph, SMM 2001, Bilbao, 2001, p. 50

01/8 P. Ripka, T. O'Donnell, S.C. O'Mathuna, W.G. Hurley: Fluxgate sensors for medical applications, MCFA Symposium, Dublin 2001, p. 30

01/9 P.Ripka, M. Duffy, S. O'Reilly, W.G.Hurley: PCB-Integrated Current Sensor, JMW 01, Cardiff, p. 89

01/10 A. Cerman, P. Ripka, S. Kawahito: Digital Fluxgate Magnetometers, JMW 01, Cardiff, p. 88

01/11 A. Tipek,P.Ripka, P. Kaspar, A. Cerman, A. Platil: Laboratory of Magnetic Measurement, JMW 01, Cardiff, p. 20

01/12 H. Hauser, P. L. Fulmek, P. Haumer, M. Vopalensky, P. Ripka: Prediction of the Flipping fields in AMR Sensors, Proc. MMM conference, Seattle, Nov. 12-16, 2001

2002

02/1 A. Tipek, P.Kott, A. Platil, A. Cerman, P. Ripka, P. Kaspar: Magnetometer for the MIMOSA Sattelite, Workshop CTU 2002 vol. A, p. 388-389

02/2 I. Vondrka, A. Tipek, P. Kaspar, P. Ripka, A. Platil: Temperature Testing of Magnetic Sensors, Workshop CTU 2002 vol. A, p. 390-391

02/3 P. Ripka, A. Cerman: Towards fully digital fluxgate magnetometer, EMSA Athens 2002, Book of Abstracts S1P4

02/4 P. Ripka, M. Vopálenský, A. Platil: Precise magnetic sensors, EMSA, Athens 2002, Book of Abstracts 2002, S1_P5

02/5 P. Ripka: Advances in Fluxgate sensors (invited paper), EMSA, , Athens 2002, Book of Abstracts S1inv

02/6 H. Hauser, P. L. Fulmek, P. Haumer, M. Vopalensky, P. Ripka: Prediction of the Flipping Fields in AMR Sensors. EMSA 2002, July 3 -- 5, Athens 2002, Section S3_P6.

02/7 P.Ripka, M. Duffy, S. O'Reilly, W.G.Hurley, J. Kubík: Current Sensor in PCB Technology, IEEE Sensors conference, Orlando, 779 - 784

02/8 P. Ripka, P. Kaspar, A. Tipek, K. Svabova, R. Holusa: Fluxgate Can Replace Squid For Lung Diagnostics, IEEE Sensors conference, Orlando, Proc. pp. 321-324

02/9 P. Ripka, W. Hurley: Excitation tuning of fluxgate sensors, IMTC Anchorage 2002, p. 677-680

02/10 Platil, Polnicky, Kaspar, Ripka: Industrial applications of programmable Hall sensor, Magnetic Measurements, Bratislava 2002, p. 124

02/11 Platil, Kaspar, Ripka: Phase error compensation in sampling hysteresisgraph, Magnetic Measurements, Bratislava 2002, p. 93

02/12 Tipek, Kaspar, Ripka, Platil: Temperature testing of magnetic sensors, Magnetic Measurements, Bratislava 2002, Book of Abstract, p.100

02/13 A. Tipek, P. Kott, P. Ripka, P. Kašpar, A. Platil: Triaxial magnetometers and their calibration, Magnetic Measurements, Bratislava 2002, Book of Abstract, M2-061 p.81

02/14 M. Malátek, A. Platil, A. Cerman, P. Ripka: Permalloy GMI sensor, Magnetic Measurements, Bratislava 2002, p. 109

02/15 A. Platil, M. Vopálenský, P. Ripka, P. Kašpar: Improvement of AMR magnetometer precision. Eurosensors XVI, September 15 -- 18, Prague 2002, Section TP22, Book of Abstracts pp. 339 -- 340.

02/16 A. Cerman, J. Saneistr, Ripka: Fluxgate magnetometer with PWM, Eurosensors XVI, Prague 2002, Book I, pp.199-200

02/17 S. C. Tang , M. C. Duffy, P. Ripka, W. G. Hurley: Excitation Circuit for Fluxgate Sensor using Saturable Inductor, Eurosensors 2002

02/18 M. Vopalensky, P. Ripka, J. Kubik, M. Tondra: Alternating biasing of SDT sensors. Eurosensors XVI, September 15 -- 18, Prague 2002, Section W1A3, Book of Abstracts pp. 511 -- 512.

02/19 M. Vopalensky, P. Ripka, J. Kubik, M. Tondra: Improved GMR sensor biasing design. Eurosensors XVI, September 15 -- 18, Prague 2002, Section TP24, Book of Abstracts pp. 343 -- 344.

02/20 A. Cerman, P. Ripka: Design of Digital Fluxgate Magnetometer, BEC2002, Tallin, pp. 183-186

02/21 M. Vopálenský, P. Ripka, M. Tondra, H. Hauser: Practical measurements on new types of magnetoresistive sensors, BEC 2002, October 6--9, Tallinn, pp. 215--216

02/22 A. Cerman, P. Ripka - Digitalization of fluxgate magnetometers, ISIST'02, China, pp. 136

02/23 P. Ripka:Microfluxgates versus magnetoresistors, invited paper, Magnetic Materials Measurements and Modelling, Ames 2002, pp.1 - 24.

02/24 A. Cerman, J Saneistr, P. Ripka: Fluxgate magnetometer with PWM, CNRS International Scientific School, 2002, poster, unpublished

02/25 A. Platil, P. Ripka: Other Applications of magnetometers, invited paper, CNRS International Scientific School, 2002, pp. 6-7

02/26 P. Ripka: Magnetic sensors overview, invited paper, CNRS International Scientific School, 2002, pp. 56-57

2003

03/1 Pavel Mlejnek, Michal Vopálenský: Contactless Current Measurement with the Anisotropic Magnetoresistors. Workshop 2003, CTU, Prague.

03/2 Pavel Ripka, William G. Hurley: Switching-mode fluxgate, Paper EU 090, Transducers Boston 2003, p. 1283-1286. ISBN 0-7803-7732-X.

03/3 A. Platil, J. Saneistr, P. Ripka, P. Kaspar: AC characterization of materials for fluxgate cores, Book of Abstracts SMM 2003, T2-37

03/4 J. Saneistr, P. Kašpar, P. Ripka: Precise current comparator with fully enclosed magnetic shielding, Eurosensors XVII, Portugal, pp. 626-627

03/5 A. Cerman, A. Kuna P.: Delta-sigma modulation in the sensor feedback loop, Eurosensors XVII, Portugal p. 677-678

03/6 Malátek, M. - Platil, A. - Ripka, P.: GMI Current Sensor. In: EUROSENSORS XVII. Guimaraes : University of Minho, 2003, p. 418-419. ISBN 972-98603-1-9.

03/7 A. Tipek, P. Ripka, T. O'Donnell: PCB technology used in fluxgate sensor construction, Eurosensors XVII, Portugal, p. 424-425

03/8 A. Platil, J. Kubík, M. Vopálenský, P. Ripka: Precise AMR magnetometer for compass. In: IEEE Sensors conference 2003, October 22-24, 2003, Toronto, Canada, Book of Abstracts p. 152-153, Proceedings pp. 472-476

03/9 Tipek, A. - Ripka, P. - O'Donnell, T. - Kubík, J.: Excitation of PCB fluxgate sensor. IEEE SENSORS 2003. Toronto : IEEE, 2003, p. 645-646.

03/10 Kašpar, P. - Tyml, P. - Ripka, P. - Platil, A. Experiencies with Leonardo Pilot Project. In: ČVUT v evropském výzkumném a vzdělávacím prostoru. Prague : CTU, 2003, p. 143-148. ISBN 80-01-02909-3. (in Czech).

03/11 P. Ripka: Precise Vectorial Magnetic Sensors. In: SMART SENSORS and MEMS. Póvoa de Varzim : NATO OTAN Advanced Study Institute, 2003, p. 111-123. ISBN 0-9733840-0-X.

03/12 P. Ripka: Current sensors using Magnetic Materials (invited paper), Amorphous and Nanostructured Magnetic Materials 2003, Iasi, p. I.6

2004

04/1 P. Ripka: Double-core DC Current Clamps, Intermag 2004, Aneheim, USA, p. 195

04/2 P. Ripka: Magnetic field of human lungs: models and measurement, PIERS Pisa, 2004, p. 815 – 818

04/3 M. Vopálenský, P. Dostál, P. Ripka, M. Tondra: Compensated SDT for Linear Measurements, Magnetic Measurements 2004, Prague, pp 79-80.

04/4 M.Malátek, L. Kraus, P. Ripka,: GMI effect in CoFeCrSiB ribbon, Magnetic Measurements 2004, Prague, pp. 73-74.

04/5 M. Malátek, P. Ripka, L. Kraus: Temperature drift of offset of MI sensors, EMSA 2004, Cardiff, UK, MP14

04/6 J. Saneistr, P.Kašpar, P. Ripka: Dual core current clamps EMSA 2004, Cardiff, UK, M-P.25

04/7 J. Kubik, J. Vcelak, P. Ripka: On Cross-Axis Effect of the Anisotropic Magnetoresistive Sensors, EMSA 2004, Cardiff, UK, MP-16

04/8 J. Včelák, P. Ripka, A. Platil, J. Kubík, P. Kašpar: Errors of AMR Compass and Methods of Their Compensation, EMSA 2004, MP-17, Cardiff, UK

04/9 M. Duffy, S.C. Tang, P. Ripka: Application of fluxgate excitation circuit to magnetic sensing, Digest Eurosensors XVIII, 2004, pp 516-517, also in Proc. P2.47

04/10 J. Včelák, P. Ripka, J. Kubík, A. Platil, P. Kašpar:AMR Navigation Systems and Methods of their Calibration, Eurosensors 2004, Rome, Abstract pp. 42-43, Proc. pp. C1.6-1 to 4

04/11 M. Malátek, P. Ripka, P. Kašpar, A. Platil, L. Kraus: Electronics for MI current sensor, IMEKO 2004, Athens, pp. 577-580

04/12 P. Ripka, K Zaveta, K. Jurek: Nanocrystalline Fluxgate Cores with Transverse Anisotropy, IEEE Sensors Vienna 2004, p. 314-315

04/13 P. Ripka, J. Tomek, A. Tipek: Magnetic field of Human lungs: Models and measurement, Proc. JEMS 2004, Abstracts p. 163

2005

05/1 M. Malátek, P. Ripka, L. Kraus - Double-Core Gmi Current Sensor, Intermag Nagoya 2005, p. 636.

05/2 J. Kubík, L. Pavel, P. Ripka: PCB racetrack fluxgate sensor with improved temperature stability, Eurosensors 2005, Barcelona, WC1-WC2

05/3 J. Kubík, P. Ripka: Noise spectrum of pulse excited fluxgate sensor, Eurosensors 2005, Barcelona, Spain, Wpb43.

05/4 M. Malatek, P. Ripka: Offset stability of GMI sensors, Eurosensors 2005, Barcelona, Spain, p. 222-225.

05/5 M. Malatek, A. Tipek, P. Kaspar, P. Ripka, M. Dvorak: Permalloy shielding with temperature chamber, MMM 2005, San Jose, USA, p. 472

05/6 P. Ripka, X. Li, J. Fan: Orthogonal fluxgate effect in electroplated wires, Proc. IEEE Sensors 2005, Irvine, CA,USA, [CD-ROM], unpaged

05/7 J. Kubík, L. Pavel, P. Ripka: Low power PCB fluxgate sensor, Proc. IEEE Sensors 2005,Irvine, CA, USA, [CD-ROM], unpaged

05/8 Tomek, J. - Platil, A. - Ripka, P. Advances in Measurement, Modeling and inversion for Magnetopneumography, In ISEM 2005 Short Paper Proc. Bad Gastein 09/2005 pp.218-219, ISBN:3-902105-00-1

05/9 Tomek, J. - Platil, A. - Ripka, P. - Kašpar, P. Fluxgate Gradiometer in Magnetopneumography In Eurosensors XIX Proc. Vol II, WPb49, Barcelona 09/2005

05/10 Tomek, J. - Platil, A. - Ripka, P. Magnetic Field of the Lungs – Neural Network Inverse models In IFMBE Proc. (EMBEC´05), Volume 11, 2005, Prague 11/2005, ISSN: 1727 – 1983

05/11 J. Fan, X.P. Li, P. Ripka: Low Power Orthogonal Fluxgate Sensor with Electroplated Ni80Fe20/Cu Wire, Proc. MMM conference 2005, pp. 111-112

2006

1. P. Ripka: Magnetic Sensors for Navigation and Security Applications, Proceedings of the IEEE Instrumentation and Measurement Technology Conference, IMTC 2006, page(s): VI – VI, ISSN: 1091-5281
2. A. M. Lewis, P. Ripka: Mine Detection in Magnetic Soils, Book of Abstracts, EMSA 2006, p. 59
3. P. Ripka, A. Lewis, P. Kaspar, and J. Vcelak: "DC gradiometers for bomb detection: scalar vs. vectorial." Book of Abstracts, EMSA 2006., p. 32
4. J. Tomek, P. Mlejnek, V. Janásek, P. Ripka, P. Kašpar, and J. Chen, "Gastric motility and volume sensing by implanted magnetic sensors." Book of Abstracts, EMSA 2006., p. 35 .. VZ 15
5. J. Včelák, V. Petrucha, J. Kubík, P. Ripka, and P. Kašpar: "Electronic compass with PCB fluxgate sensors." Book of Abstracts, EMSA 2006., p. 36
6. J. Kubík, M. Janošek, P. Ripka: "Low-power fluxgate sensor signal processing using gated differential integrator.", EMSA 2006., p. 132
7. J. Kubík, M. Janošek, P. Ripka: Magnetometer with Pulse-Excited Miniature Fluxgate Sensor Cores. MM 2006, 38-39
8. M. Malátek, P. Ripka: Co-Rich Amorphous Material in Fluxgate and GMI Regime, MM 2006, 46-47
9. P. Ripka, A. Lewis: Eddy Current Metal Detectors - Pulse vs. Continuous-Wave, MM 2006, 93-94
10. J. Tomek, A. Platil, P. Ripka: Optimization of Magnetopneumographics System for Successful Inversion, MM 2006, 93-94
11. P. Ripka, A. Lewis: Discrimination ability of magnetic sensors, Proc. Eurosensors 2006, pp. 420-421
12. J. Tomek, Mlejnek, P. - Janásek, V. - Kašpar, P. - Ripka, P. - et al.: The Precision of Gastric Motility and Volume Sensing by Implanted Magnetic Sensors, Proc. Eurosensors 2006, pp. 254-255
13. A. Platil, J. Vcelak, P. Ripka : Compensation of Accelerometer Drift for Improved Position Estimation, Proc. Eurosensors 2006, pp. 106-107

13. J. Tomek, A. Platil, P. Ripka: Application of Neural Networks Inversion in Magnetopneumography, Proc. OIPE 2006, 243-244

14. J. Tomek, Mlejnek, P. - Janásek, V. - Kašpar, P. - Ripka, P., Vhen J,: - et al.: Volume and Motility Sensing for Implantable Gastric Pacemaker, IFMBE Proceedings World Congress on Medical Physics and Biomedical Engineering 2006, Springer-Verlag, p. 4943

15. Ripka, J. Vcelak, P. Kaspar and A. M. Lewis, "Bomb Detection in Magnetic Soils: AC versus DC Methods," SENSORS, 2006 IEEE, Daegu, Korea (South), 2006, pp. 1389-1391, doi: 10.1109/ICSENS.2007.355890.

16. M. Malatek and P. Ripka, "Single-core Giant Magnetoimpedance with AC Bias," SENSORS, 2006 IEEE, Daegu, Korea (South), 2006, pp. 1012-1015, doi: 10.1109/ICSENS.2007.355796.

2007

1. P. Ripka, M. Butta, M. Malatek, S. Atalay, F. E. Atalay: Characterisation of magnetic wires for fluxgate cores, Transducers/Eurosensors conference, Lyon, France, 2007
2. P. Ripka: Sensors based on bulk soft magnetic materials: advances and challenges, invited paper, SMM Cardiff 2007 , p.13
3. M. Butta, P. Ripka, S. Atalay, X.P. Li: Fluxgate effect in twisted magnetic wires, SMM Cardiff 2007 , p.223

2008

1. M. Butta, P. Ripka: Two-Domain Model For Orthogonal Fluxgate, Intermag 2008,
2. Butta, M. - Ripka, P.: Investigation of Crossfield Effect in AMR Sensor. In EMSA'08 - 8th European Magnetic Sensors & Actuators Conference. Caen: Université de Caen, 2008, p. 58.

3. Butta, M. - Ripka, P.: Model for Coil-less Fluxgate. In EUROSENSORS XXII 2008 [CD-ROM]. Dresden: Eurosensors, 2008, p. 117-120. ISBN 978-3-00-025217-4.
4. Butta, M. - Ripka, P.: Pulse Excitation of Coil-less Fluxgate. In IEEE SENSORS 2008 - The Seventh IEEE Conference on Sensors [CD-ROM]. Lecce: IEEE Sensors Council, 2008, p. 379-382. ISSN 1930-0395.
5. Janošek, M. - Ripka, P. - Platil, A.: Magnetic Markers Detection using PCB Fluxgate Array. In 53rd Annual Conference on Magnetism and Magnetic Materials [CD-ROM]. Austin: American Institute of Physic , 2008, p. 200.
6. Janošek, M. - Ripka, P.: Current-output of PCB Fluxgates. In EMSA'08 - 8th European Magnetic Sensors & Actuators Conference. Caen: Université de Caen, 2008, p. 49.
7. Petrucha, V. - Ripka, P. - Kašpar, P. - Merayo, J.: Automated System for the Calibration of Magnetometers. In 53rd Annual Conference on Magnetism and Magnetic Materials [CD-ROM]. Austin: American Institute of Physic , 2008, p. 202.
8. Platil, A. - Janošek, M. - Rychetský, Š. - Pribula, O. - Ripka, P.: Short-range Navigation of Minesweeping Detector. In EUROSENSORS XXII 2008 [CD-ROM]. Dresden: Eurosensors, 2008, p. 508-511. ISBN 978-3-00-025217-4.
9. Ripka, P. - Butta, M.: Origin of the Crossfield Effect in AMR Sensors. In EMSA'08 - 8th European Magnetic Sensors & Actuators Conference. Caen: Université de Caen, 2008, p. 65.
10. Ripka, P. - Humr, J.: Inductive Distance Sensor for Biomedical Applications. In IEEE SENSORS 2008 - The Seventh IEEE Conference on Sensors [CD-ROM]. Lecce: IEEE Sensors Council, 2008, p. 1230-1232. ISSN 1930-0395.
11. Ripka, P. - Li, X.P. - Fan, J.: Multiwire Core Fluxgate. In EUROSENSORS XXII 2008 [CD-ROM]. Dresden: Eurosensors, 2008, p. 154-156. ISBN 978-3-00-025217-4.
12. P. Ripka, M. Janosek: Advances in Magnetic Sensors, IEEE SENSORS 2008 - The Seventh IEEE Conference on Sensors [CD-ROM]. Lecce: IEEE Sensors Council, 2008, pp. 1-4 doi 10.1109/ICSENS.2008.4716368

2009

1. P. Ripka, M. Janošek: Crossfield Sensitivity in AMR Sensors and its Compensation, AMR conference Wetzlar
2. M. Butta, P. Ripka: Linearity of pulse excited coil-less fluxgate, IEEE Intermag 2009, p. 93
3. P. Ripka, M. Janošek, and M. Butta: Using the crossfield error in AMR, IEEE Intermag 2009, p. 129
4. M. Butta, P. Ripka, G.A. Badini, M. Vázquez, G. Infante: Bi-metallic magnetic wire with insulating layer as core for orthogonal fluxgate, IEEE Intermag 2009, p. 89
5. X. Li, M. Malatek, J. Fan, P. Ripka: Study of the GMI effect and orthogonal fluxgate effect of two-wire arrays of amorphous wires, IEEE Intermag 2009, p. 60
6. Pavel Ripka, M. Butta, Xiaoping Li, Fan Jie: Sensitivity and noise of transverse fluxgate with multiwire core, SMM 2009, p. 2
7. M. Butta, P. Ripka, G. Infanteb, G.A. Badini-Confalonieri and M. Vázquez: Magnetic microwires with field induced helical anisotropy for coil-less fluxgate, SMM 2009, p. 6
8. M. Butta, P. Ripka, Joaquín Pérez Navarrete: Double coil-less fluxgate in bridge configuration, SMM 2009, p. 17
9. V. Petrucha, P. Mlejnek, P. Ripka, M. Chvojka, P. Posolda: Tester for space micro-accelerometer, Procedia Chemistry Vol. 1 Iss. 1 pp 164-167, 2009
10. P. Ripka, M. Janosek, M. Butta, S. W. Billingsley, E. Wakefield: Crossfield effect in magnetic sensors, IEEE Sensors conference Christchurch, New Zealand 2009, Proc. IEEE Sensors conf. 2010, pp. 1860-1863

2010

1. Janosek, M.; Butta, M.; Ripka, P.: Two sources of cross-field error in racetrack fluxgate, Intermag 2010, p.
2. Ripka, Janosek: Frequency dependence of the soil susceptibility - measurement and compensation, Intermag 2010, p.
3. Butta, Janosek, Ripka: FPGA-based fluxgate magnetometer with digital integration, Intermag 2010, p.
4. Butta, Ripka, Vazquez, Infante, Kraus: Microwire Electroplated under Torsion as Core for Coil-less Fluxgate, EMSA 2010 p. 80
5. Kraus, Ripka, Butta: Magnetic Anisotropy and Giant Magnetoimpedance in NiFe Electroplated on Cu Wires, EMSA 2010 p. 15
6. Platil, Tomek, Pribula, Janosek, Fischer, Ripka: Magnetography Using Optical Position Reference, EMSA 2010 p. 103
7. P. Ripka: Testing and Calibration of Magnetic Sensors, EMSA 2010 p. 5
8. P. Ripka, M. Butta, A. Platil, Temperature Stability of AMR Sensors, EMSA 2010 p. 81
9. P. Ripka, P. Nováček, M. Reinštein, J. Roháč: Position Sensing System for Eddy-Current Mine Imager, A4P-G, Eurosensors 2010
10. P. Ripka, M. Janošek, P. Nováček : Depth Estimation of Metal Objects, A4P-G, Eurosensors 2010
11. Butta, Ripka: Magnetic Microwires for Orthogonal Fluxgates Electroplated with Pulsing Current, Eurosensors 2010
12. Mattia Butta, Pavel Ripka: Temperature stability of coil-less fluxgate offset, MM 2010
13. M. Janošek, P. Ripka: PCB fluxgate gradiometer measuring dBx/dx and dBx/dy, MM 2010
14. P. Ripka, M. Janosek, M. Butta, S. W. Billingsley, E. Wakefield: Crossfield error in fluxgate and AMR sensors, MM 2010
15. A. Zikmund, P. Ripka: Scalar calibration of 3-D coil systems, MM 2010
16. M. Butta, M. Janosek, and P. Ripka: Coil-less fluxgate operated in feedback mode by means of dc current, IEEE Sensors conference Limerick, Ireland, 2010
17. P. Ripka: Advances in magnetic sensors, Imeko TC-4 symposium, Kosice 2010

2011

1. A. Platil, P. Ripka: Temperature stability of AMR sensors, SMM
2. P. Nováček, P. Ripka: Metal objects discrimination, SMM
3. P. Ripka, P. Kaspar, P. Mlejnek: Current transformer can detect DC current component, SMM
4. P. Ripka, P. Kaspar: Fluxgate current sensor with double core, SMM
5. P.Butvin., P.Ripka., B.Butvinová., M.Janošek, P.SvecSr, P.SvecJr, D.Janičkovič., M.Kuzminski., G.Vlasák: Tape-wound and stacked (laminated) closed-path fluxgate sensors made of metallic ribbons, SMM
6. Jiří Tomek, Antonín Platil, Michal Janošek, Pavel Ripka Suppression of environmental noise in magnetopneumography by the use of higher order gradients, SMM
7. A. Zikmund, P. Ripka: Magnetic Tracker with High Precision, Eurosensors
8. J. Vyhnánek, M. Janošek, P. Ripka: AMR gradiometer for mine detection and sensing, Eurosensors
9. M. Janošek, J. Vyhnánek, P. Ripka: CW Metal Detector Based on AMR Sensor Array, IEEE Sensors
10. P. Nováček, J. Roháč, P. Ripka, L. Paroulek: Explosive Remnants of Wars Differentiation, SPM 2011
11. P.Ripka,P.Kašpar,J.Saneistr: Geometrical Selectivity of Current Sensors, SPM 2011

2012

1. Ripka P., Draxler K., Styblíková R., A. Platil, P. Ripka: Measurement of DC currents in the power grid by current transformer, EMSA 2012 - Book of Abstracts, p. 85., in extended form submitted to IEEE Trans. Magn.
2. P. Nováček, P. Ripka, J. Rohac: Metal detector signal imprints of detected objects, EMSA 2012 - Book of Abstracts, p.
3. Zikmund A., Ripka P.: Calibration of the 3D coil system's orthogonalities
4. Zikmund A., Ripka P.: Uncertainty analysis of calibration of the 3D coil system
5. Jan Vyhnánek, Michal Janošek, Pavel Ripka: Low frequency noise of anisotropic magnetoresistors in ac-excited magnetometers
6. P. Ripka, A. Zikmund and J. Vcelak: Long-range magnetic tracking , Proc. IEEE Sensors Conference, Taipei, Taiwan, 2012 doi: 10.1109/ICSENS.2012.6411065, pp 1 - 4

2013

1. P Ripka: Security applications of magnetic sensors (invited), Sensors & their Applications XVII, J. Phys.: Conf. Ser. 450 (2013) 012001
2. J Vyhnanek et al.: Low frequency noise of anisotropic magnetoresistors in DC and AC-excited metal detectors 2013 J. Phys.: Conf. Ser. 450 012031
3. Ripka, P. - Draxler, K. - Styblíková, R.: AC/DC Current Transformer with Single Winding. In Soft Magnetic Materials 21. Budapest: Wigner Research Center for Physics, 2013, p. 363.
4. P. Ripka, J. Vyhnanek, J. Janosek, J. Vcelak: AMR Proximity Sensor with Inherent Demodulation, IEEE Sensors Conference Baltimore, MD, USA, 2013

2014

1. P. Ripka, K. Draxler, R. Styblikova: DC-compensated Current Transformer, IM2TC conference Montevideo, Uruguay, Proc. 2014, 212 – 215 DOI: 10.1109/I2MTC.2014.6860737
2. P. Ripka, M. Pribil, M. Butta: Fluxgate offset study, accepted for Intermag
3. M. Butta, M. Janosek, P. Ripka, L. Kraus: The influence of magnetostriction of NiFe electroplated film on the noise of fluxgate, accepted for Intermag
4. P. Sarkar, M. Janosek, V. Petrucha, J. Vcelak and P. Ripka: Study of Stress Induced Anisotropy in METGLAS 2714A, accepted Intermag
5. P. Ripka, J. Včelák, A. Zikmund, M. Butta: Precise magnetic sensors for navigation and prospection, accepted ICSM
6. P. Ripka, K. Draxler, J. Bauer, R. Styblikova: Demagnetization of Current Transformers, EMSA
7. Zikmund, P. Ripka: Precise scalar calibration of Braunbek system, accepted EMSA
8. Zikmund, P. Ripka: Correction of the soft-iron error in magnetic tracking, accepted EMSA
9. Partha Sarkar, Pavel Ripka, Jan Vcelak, Rajat K. Roy, Ashis K. Panda and Amitava Mitra: Giant Magneto-Impedance (GMI) based magnetic sensing device for Application in Non-Destructive Evaluation, EMSA
10. P. Ripka, M. Pribil, M. Butta: Magnetostriction offset of fluxgate sensors, EMSA
11. M. Janosek, S. W. Billingsley, P. Ripka NDT of pipes under ferromagnetic sheath EMSA
12. M. Butta, L. Kraus, P. Ripka: Effect of stress induced anisotropy on the noise of ring-core, EMSA

2015

P. Sarkar, J. Vcelak, R. K. Roy, A. K. Panda, A. Mitra and P. Ripka, "Co-based amorphous material for giant magneto-impedance and fluxgate sensing cores," 2015 IEEE International Magnetics Conference (INTERMAG), Beijing, China, 2015, pp. 1-1, doi: 10.1109/INTMAG.2015.7157709.

SMM Sao Paolo, Brazil

2016

1. P.Ripka, Michal Přibil, V. Petrucha, V. Grim, and K.Draxler: A fluxgate current sensor with an amphitheater busbar, Intermag San Diego, Jan 2016
2. Pavel Ripka, Václav Grim, Vojtěch Petrucha: Busbar current sensor with frequency compensation, EMSA conference, Torino, July 2016
3. Jan Vyhnanek, Pavel Ripka: Miniature AC magnetic sensor, EMSA conference, Torino, July 2016
4. P. Mlejnek, P. Ripka: Analysis of the parameters of AMR yokeless current sensor with improved accuracy measurement device, Eurosensors conference, Budapest, Sept. 2016
5. P. Ripka, J. Vyhnánek, A. Chirtsov: Crossfield response of industrial magnetic sensors, 2DM workshop Tianjin, Sept. 2016

2017

1. Ripka, "4-sensor yokeless electric current transducer," 2017 IEEE International Magnetics Conference (INTERMAG), Dublin, 2017, Article number 8007975 DOI: 10.1109/INTMAG.2017.8007975 ISBN: 978-153861086-2
2. P. Ripka, A. Chirtsov, V. Grim: Contactless Piston Position Transducer with Axial Excitation, Intermag 2017
3. P. Ripka, A. Chirtsov: Influence of External Current on Yokeless Electric Current Transducers, Intermag 2017
4. J. Vyhnanek, P. Ripka, A. Chirtsov Linear Position Sensing through Conductive Wall without Permanent Magnet, Eurosensors 2017, Proceedings 2017, 1, 390; doi:10.3390/proceedings1040390 http://www.mdpi.com/2504-3900/1/4/390/
5. P. Ripka, A. Chirtsov, M. Mirzai: Inductance position sensor for pneumatic cylinder, SMM,
6. M. Mirzaei, P. Ripka, and A. Chirtsov: The effect of conductor permeability on electric current transducers, SMM, full paper AIP Advances
7. Chirtsov A., Ripka P., Vyhnánek J.: Contactless high-current transducer with integrated fluxgate sensors, MM 2017 conf.
8. Přibil M., Ripka P, Chirtsov A.: Differential busbar current sensor with high suppression of external currents, MM 2017 conf.
9. Kaspar P., Ripka P., Vyhnánek J.: DC compensated permeameter - the accuracy study, MM 2017 conf., submitted for JEE
10. M. Mirzaei, A. Chirtsov,. J. Vyhnanek, P. Ripka: Temperature sensitivity analysis of inductance position sensor for pneumatic cylinder, MM 2017 conf.

2018

1. M. Mirzaei, P. Ripka: Analytical functions of magnetization curves for high magnetic permeability materials, Intermag 2018 conference Singapore,, extended version published in IEEE Trans. magn.
2. P. Ripka, A. Chirtsov, J. Vyhnanek: Busbar current transducer with suppression of external fields and gradients, Intermag 2018 Singapore, DOI: 10.1109/INTMAG.2018.8508557 (extended version published in IEEE Trans. magn.)
3. P. Ripka, J. Bauer: Switching-mode DC current transformer, 12th European Magnetic Sensors and Actuators Conference EMSA 2018,
4. P. Ripka, V. Grim, J. Fischer: Magnetometric location and measurement of hidden AC currents, EMSA 2018
5. Chirtsov, Ripka, Mirzaei, Vyhnanek: Dynamic response and temperature stability of LVDT sensors, EMSA 2018
6. Mirzaei, Ripka, Chirtsov, Vyhnanek: Eddy current linear speed sensor, EMSA 2018, (extended version published in IEEE Trans. magn.)
7. Grim, Ripka, Fischer: Error Source Classification and Optimization Techniques for Yokeless Current Sensors, EMSA 2018,
8. P. Ripka, M. Mirzaei, A. Chirtsov: Demagnetization coefficient and effective permeability of nanowire arrays, CPEM Paris 2018, doi: 10.1109/CPEM.2018.8500785
9. P. Ripka: New Contactless Electric Current Sensors, Sensors Expo and conference, San Jose 2018
10. M. Mirzaei, P. Ripka: Analysis of Material Effect on Rail Impedance, 2018 53rd International Universities Power Engineering Conference (UPEC), Glasgow, 2018, pp. 1-6. doi: 10.1109/UPEC.2018.8541860
11. A. Chirtsov, P. Ripka, J. Vyhnanek: Rectangular Array Current Transducer with Integrated Microfluxgate Sensors, IEEE Sensors conference 2018 New Delhi, paper # 1637 pp. 1-4. doi: 10.1109/ICSENS.2018.8589563
12. M. Mirzaei, P. Ripka, A. Chirtsov, J. Vyhnanek: Temperature Influence on Position Transducer for Pneumatic Cylinder, IEEE Sensors conference 2018, paper #1638 pp. 1-4, doi: 10.1109/ICSENS.2018.8589788
13. P. Ripka, V. Grim and A. Chirtsov: Improved 3-Phase Current Transducer, Eurosensors conference, Proceedings MDPI 2018, 2(13), 1070
14. M. Mirzaei, P. Ripka, A. Chirtsov and J. Vyhnanek, "Impedance of Iron Conductors with Circular and Rectangular Shapes," *IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society*, D.C., DC, USA, 2018, pp. 194-199. doi: 10.1109/IECON.2018.8592704

2019

1. Grim, V.; Ripka, P.; Fischer, J. Characterization of circular array current transducers, Proc. 2019 IEEE SENSORS APPLICATIONS SYMPOSIUM (SAS), Sophia Antipolis, France, IEEE Instrumentation and Measurement Society, 2019. ISBN 978-1-5386-7713-1.
2. A. Chirtsov, P. Ripka, M. Mirzaei, V. Grim: Three-Phase Busbar Current Transducer, Magnetic Frontiers 2019, full paper in IEEE Magnetics Letters
3. M. Mirzaei, P. Ripka, A. Chirtsov, V. Grim: Eddy current speed sensor with magnetic shielding, SMM Poznan 2019, acc. JMMM
4. P. Ripka, V. Grim, J. Bauer: Switching-mode DC current transformer, SMM Poznan 2019, acc. JMMM
5. P. Ripka, M. Mirzaei, A. Chirtsov, V. Grim: Temperature stability of the Transformer Position Transducer for Pneumatic Cylinder, SMM 2019, acc.JMMM
6. V. Grim , J. Pek, P. Ripka, and A. Chirtsov: Magnetometric Localization and Measurement of Hidden AC Currents, IEEE Sensors conference, Toronto 2019
https://epapers.org/sensors2019/ESR/session_view.php?PHPSESSID=q799fpgf6op3nu6fi19ct24sr0&session_id=68

2021

1. M. Mirzaei, P. Ripka, V. Grim: An Eddy Current Speed Sensor for Rectangular Bars. In: The European Conference Physics of Magnetism 2021, Book of Abstract. Poznan: Faculty of Physics, Adam Mickiewicz University, 2021. p. 1.
2. M. Mirzaei, P. Ripka, V. Grim: A Linear Eddy Current Speed Sensor for Speed Measurement of Magnetic and Nonmagnetic Conductive Objects.. 13th International Symposium on Linear Drives for Industry Applications (LDIA), Wuhan, 2021, https://ieeexplore.ieee.org/document/9505714
3. M. Mirzaei, P. Ripka, V. Grim: A Simplified 2-D equivalent model for magnetic wire array, IEEE Intermag 2021, online doi: 10.48448/pcwn-tg42
4. Ripka, Hrakova, Grim, MIrzaei: Sensitivity and noise of multiwire parallel fluxgate, IEEE Intermag 2021, doi: 10.48448/n703-2k4
5. Grim, Ripka, Draxler: Rogowski coil with ferromagnetic core, Proc. IEEE Intermag 2021, Available from: https://underline.io/16482-it-09---rogowski-coil-with-ferromagnetic-core
6. M. Mirzaei, P. Ripka, V. Grim: Estimation of a Magnetization Curve of a Fluxgate Wire Core Using an Inverse Technique, IEEE Sensors 2021, Proc. IEEE Sensors 2021 pp. 1-4 DOI: 10.1109/SENSORS47087.2021.9639484
7. V. Grim, P. Ripka: Self-Oscillating DC Current Transformer with Nanocrystalline Core, Proc. IEEE Sensors 2021 online pp. 1-4, doi: 10.1109/SEN
8. P. Ripka: Magnetic sensors with nanocrystalline and wire cores, COE 2022 conference (invited)

2022

1. P. Ripka, D. Hrakova, M. Mirzaei, V.Grim, O. Kaman: Apparent permeability of ordered magnetically soft nanowire and microwire arrays, Intermag 2022, New Orleans, LA, USA. In extended form published in AIP Advances.
2. V. Grim, P. Ripka: Rogowski Coil with Ferromagnetic Powder Core, Intermag 2022, In extended form published in IEEE Magnetics Letters.
3. Mehran Mirzaei; Pavel Ripka; Vaclav Grim: Conductivity Measurement of Nonferrous Plates using A Novel Sensor with Triangular Arrangements of Triple Coils, Intermag 2022
4. D. Hrakova, P. Ripka: Sensitivity and noise of parallel fluxgate sensor with amorphous wire cores, SMM 2022
5. A. Laposa, O. Kaman, D. Hrakova, J. Kroutil, V. Povolný and P. Ripka: Mn-Zn ferrite nanoparticles ink for inkjet printing-Soft Magnetic Materials conference SMM 2022
6. V. Grim, M. Mirzaei, P. Ripka, M. Schmidt: Transverse LVDT Position Sensor with Nanocrystalline Core, SMM 2022 Grenoble
7. P. Ripka, P. Mlejnek, M. Mirzaei: DC field resistance of current transformers with anisotropic cores, SMM 2022 Grenoble
8. D. Hrakova, P. Ripka, O. Kaman, A. Laposa, D. Novotny: Fluxgate sensor based on inkjet-printed nanoparticle core, European Magnetic Sensors and Actuators Conference EMSA, Madrid 2022
9. P. Ripka, N. George: High-current transducer with large bandwidth, EMSA 2022
10. N. George, P. Ripka: A Fluxgate Based Busbar Current Transducer with Frequency Invariant Point, EMSA 2022
11. P. Ripka: Magnetic Sensors Based on Amorphous and Nano materials, invited, JEMS - 2022 Joint European Magnetism Symposia conference, Warsaw
12. D. Hrakova, P. Ripka: Creep-induced magnetic anisotropy of nanocrystalline wire as fluxgate sensor core, MMM IEEE conference on Magnetism and Magnetic Materials, Minneapolis, USA, 2022 online

2023

1. Z. Pliva, L. Petržílka, D. Hrakova, A. Laposa, P.Ripka: Fluxgate sensor with printed winding, SMM 2023 Praha

2. Jiri Maier, Pavel Ripka, Poki Chen , Lin Yu Chan: Microfluxgate Sensor with racetrack core, SMM 2023

2024

1. M. Mirzaei and P. Ripka, "Material Properties Effects of Hollow Shafts on the Performance of Rotational Eddy Current Speed Sensor," 2024 IEEE Transportation Electrification Conference and Expo (ITEC), Chicago, IL, USA, 2024, pp. 1-6, doi: 10.1109/ITEC60657.2024.10598846.
2. Platil, A.; Novotný, D.; Ripka, P. Improved Method for Linear Position Sensing through Conductive Wall, XIV. European Magnetic Sensors and Actuators Conference (EMSA 2024) Košice, Book of Abstracts pp. 179-180, full paper to appear in 2025 in IEEE Trans. Magn
3. P. Ripka, M. Mirzaei, J. Maier: Magnetic X-Y position sensor, XIV. European Magnetic Sensors and Actuators Conference (EMSA 2024) Košice, Book of Abstracts pp. 61-62, Book of Abstracts pp.
4. M. Mirzaei, J. Maier, P. Ripka: Linear Position Sensor with Extended Linearity Range, EMSA 2024, Book of Abstracts pp.195-196

2025

1. P. Ripka, J. Maier, M. Mirzaei: Design considerations for Microfluxgate, iSIM 2025 Book of Abst. p.47, https://theisim.org/
2. J. Maier, P. Ripka, P. Chen: Microfluxgate: Rod core vs. Racetrack Core, iSIM 2025, Book of Abst. p.47, https://theisim.org/
3. J. Maier, P. Ripka and M. Mirzaei: Modeling Magnetic Field in Racetrack-Core Fluxgates at High Excitation Frequency, IEEE Intermag 2025, Book of Abstracts p. 320
4. Mehran Mirzaei, Pavel Ripka, and Jiri Maier: Design Optimization of a Position Sensor for Linearity Range Extension, IEEE Intermag 2025, Book of Abstracts pp. 85-6
5. J. Maier: Micro-fluxgate core made of novel multilayer material to reduce eddy currents at high excitation frequencies, SMM Conference 2025
6. P. Ripka: Soft Magnetic Materials for Sensor Applications, Book of Abstracts, CSMAG, 2025, p. 42, ŠafárikPress ISBN 978-80-574-0423-1
7. Pavel Ripka, Nadine Wolf, Christian Riedel, Christian Polak, Jiri Maier, Mattia Butta Gonzales, Vojtech Petrucha, and Poki Chen: Thinned Vitrovac tape for microfluxgate core, SMM Conference 2025
8. P. Ripka, M. Mirzaei, J. Maier: X-Y flat position sensor with nanocrystalline armature, SMM Conference 2025
9. M. Mirzaei, P. Ripka, J. Maier: Modelling of nanocrystalline flake laminated materials, SMM Conference 2025
10. Anil Kumar Appukuttan Nair Syamala Amma; Jeshma Thalappil Vaheeda; Pavel Ripka; Sreenath Vijayakumar: Effect of high-permeability back plate in near-field wireless measurement of resistance, SMM Conference 2025
11. D Hrakova, A Asfour, P Ripka: Multi-modal GMI applications with annealed nanocrystalline core, Measurement: Sensors, 38 Supp, 101424, https://doi.org/10.1016/j.measen.2024.101424 (Proc. IMEKO World congress)
12. Kumar Appukuttan Nair Syamala Amma, P. Ripka, J. Maier: A Compact Two-Dimensional Misalignment Sensor Using Planar Coil and TMR Technology, IEEE Sensors Conference

d) lecture notes

d/1. Draxler K., Kašpar P., Ripka P.: Magnetické prvky a měření
(Magnetic components and measurement), Publishing house CVUT 1994 , ISBN 80-01-01080-5 276 pages

d/2. Ripka: Senzory- laboratorní cvičení
(Sensors - laboratory exercises), Publishing house CVUT, 1996

d/3. Hejtmanová, Ripka, Sedláček: Electrical Measurements and Instrumentation -laboratory exercises, Publishing house CVUT, 1997

d/4. Platil, Ripka: Senzory a převodníky - laboratorní cvičení (Sensors and Transducers- laboratory exercises), Publishing house CVUT, 2003

d/5. Ripka, Dado, Kreidl, Novak: Senzory (Sensors), Publishing house CVUT, 2004

f) Patents

f/1. Ripka: Obvod nastavení fáze referenèního signálu ferosondového teslametru AO 271579/1992

f/2. Ripka: Vyhodnocovací obvod magnetického modulátoru AO 250257/89

f/3. Ripka: Gradiometrická sonda: patent CZ 279978/1995 a UV 686/93

f/4. Ripka, Jireš, Macháček: Způsob zhotovení jádra feromagnetické sondy, patent CZ 284460/1995, 40%

f/5. Ripka: Fluxgate sensor with race-track core, patent CZ 286657, UV 8650/99

f/6. S. C. Tang, M. Duffy, P. Ripka, W. G. Hurley: An excitation Circuit for a fluxgate Sensor, Irish Patent No. 2002/0131, 2002, US patent 6,867,587, March 15, 2005

f/7. J. Kubík, L. Pavel, P. Ripka: Feromagnetická sonda, užitný vzor 15816. 2005-09-19

f/8. P. Ripka, M. Butta: Fluxgate sensor, Czech patent 299885, 10.11.2008. European Patent n.2130056, 10.11.2010.

f/9 P. Ripka: Jednotka polohy pro detektory kovů, PV 2008-649 PUV 2008-20466

f/10 Butta, Infante, Badini-Confalonieri, Ripka, Vazquez: Patente n. 200930483, referente a "hilos magneticos bimetalicos con anisotropia helicoidal, proceso de fabricazion y aplicaciones".

f/11 M. Janosek, P. Ripka: EP2388608 (A1) - Fluxgate sensor circuit for measuring the gradient of a magnetic field (priority 2011-11-23)

f/12 J. Včelák, J. Vyhnánek, P. Ripka: Bezkontaktni magneticky senzor polohy magnetickych nebo elektricky vodivych objektu patent 304954

f/12