

ANDRZEJ KRASIŃSKI
LIST OF ALL PUBLICATIONS
(where no names are listed, A. K. is the sole author)

1 Textbooks and Monographs

- [1] 1. Inhomogeneous cosmological models [a monograph]. Cambridge University Press, Cambridge 1997, 317 pp, ISBN 0 521 48180 5. Paperback re-edition 2006; electronic re-edition 2010.
- [2] 2. Jerzy Plebański and A. Krasinski, An introduction to general relativity and cosmology [a textbook]. Cambridge University Press 2006, 534 pp, ISBN 0-521-85623-X. The list of corrections to errors and typos found (by Mr. Przemysław Jacewicz) after publication of the book is available from the web page:
http://www.cambridge.org/resources/052185623X/6730_Errata.pdf
- [3] 3. Krzysztof Bolejko, A. Krasinski, Charles Hellaby and Marie-Noëlle Célérier, Structures in the Universe by exact methods – formation, evolution, interactions [a monograph]. Cambridge University Press 2009, 242 pp, ISBN 978-0-521-76914-3.

2 Research papers published in refereed international journals

- [4] 1. Solutions of the Einstein field equations for a rotating perfect fluid, Part 1 - Presentation of the flow-stationary and vortex- homogeneous solutions. *Acta Phys. Polon.* **B5**, 411 (1974).
- [5] 2. Solutions of the Einstein field equations for a rotating perfect fluid, Part 2 - Properties of the flow-stationary and vortex- homogeneous solutions. *Acta Phys. Polon.* **B6**, 223 (1975).
- [6] 3. Solutions of the Einstein field equations for a rotating perfect fluid, part 3 - A survey of models of a rotating perfect fluid or dust. *Acta Phys. Polon.* **B6**, 239 (1975), also published in a largely expanded form as a preprint.
- [7] 4. Some solutions of the Einstein field equations for a rotating perfect fluid distribution. *J. Math. Phys.* **16**, 125 (1975).

- [8] 5. All flow-stationary cylindrically symmetric solutions of the Einstein field equations for a rotating isentropic perfect fluid. *Rep. Math. Phys.* **14**, 225 (1978).
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- [11] 8. A Newtonian model of the source of the Kerr metric. *Phys. Lett.* **A80**, 238 (1980).
- [12] 9. A. Krasinski, Marek Perkowski, ORTOCARTAN - a new computer program for analytic calculations in general relativity. *Gen. Rel. Grav.* **13**, 67 (1981).
- [13] 10. A. Krasinski, Marek Perkowski, ORTOCARTAN - a new computer program for algebraic calculations. *Computer Phys. Commun.* **22**, 269 (1981).
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- [16] 13. ORTOCARTAN - a program for algebraic calculations in general relativity. *SIGSAM Bulletin* **17** no 3 - 4, 12 (1983).
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- [18] 15. On the equations of state and on flow of perfect fluids in general relativity (comments to two papers by V. I. Obozov). *Acta Phys. Polon.* **B19**, 801 (1988).
- [19] 16. Shearfree normal cosmological models. *J. Math. Phys.* **30**, 433 (1989).
- [20] 17. A note on the uniqueness of the Wyman solution. *Rep. Math. Phys.*, **29**, 337 (1991).
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- [22] 19. Bibliography on inhomogeneous cosmological models. *Acta Cosmologica* **20**, 67 (1994).
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- [24] 21. Rotating dust solutions of Einstein's equations with 3-dimensional symmetry groups; Part 1: Two Killing fields spanned on u^α and w^α . *J. Math. Phys.* **39**, 380 (1998).

- [25] 22. Rotating dust solutions of Einstein's equations with 3-dimensional symmetry groups; Part 2: One Killing field spanned on u^α and w^α . *J. Math. Phys.* **39**, 401 (1998).
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- [30] 27. A. Krasinski and Charles Hellaby, Structure formation in the Lemaitre – Tolman model. *Phys. Rev.* **D65**, 023501 (2002).
- [31] 28. Charles Hellaby and A. Krasinski, You can't get through Szekeres wormholes or regularity, topology and causality in quasi-spherical Szekeres models. *Phys. Rev.* **D66**, 084011 (2002).
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- [47] 5. A spatially periodic generalization of the FLRW cosmological models. In: *Proceedings of the 4th Marcel Grossman Meeting on General Relativity*. Edited by R. Ruffini. Elsevier Science Publishers B. V., Amsterdam 1986, p. 989.
- [48] 6. Inhomogeneous generalizations of the Robertson-Walker cosmological models. In: *Gravitational Collapse and Relativity, Proceedings of Yamada Conference XIV*. Edited by H. Sato and T. Nakamura. World Scientific Publishing Company, Singapore 1986, p. 500.

- [49] 7. The program ORTOCARTAN for applications in the relativity theory. In: *International Conference on Computer Algebra and its Applications in Theoretical Physics*. Edited by N. N. Govorun. Joint Institute for Nuclear Research, Dubna 1986, p. 50.
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- [51] 9. User-friendly features of ORTOCARTAN. In: *Computer Algebra in Physical Research*. Edited by D. V. Shirkov, V. A. Rostovtsev and V. P. Gerdt. World Scientific, Singapore 1991, p. 66.
- [52] 10. A survey of cosmological exact solutions. In: *Proceedings of the 6th Marcel Grossman Meeting on General Relativity*. Edited by H. Sato and T. Nakamura. World Scientific, Singapore 1992, p. 642.
- [53] 11. Physics in an inhomogeneous Universe. In: *Inhomogeneous cosmological models. Proceedings of the 1994 Spanish Relativity Meeting*. Edited by J. M. M. Senovilla and A. Molina. World Scientific, Singapore, 1995, p. 27.
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- [55] 13. Physics and cosmology in an inhomogeneous Universe. In: *Black holes and high energy astrophysics. Proceedings of the 49th Yamada Conference*. Edited by H. Sato and N. Sugiyama. Universal Academy Press, Tokyo 1998, p. 133.
- [56] 14. The ultimate extension of the Bianchi classification for rotating dust models. In: *On Einstein's path: Essays in honor of Engelbert Schucking*. Edited by A. Harvey. Springer, New York 1999, p. 283.
- [57] 15. Rotating dust models in relativity. In: *Coherent states, quantization and gravity. Proceedings of the XVIIth Workshop on Geometric Methods in Physics, Białowieża (Poland) 1998*. Edited by M. Schlichenmaier, A. Strasburger, S. Twareque Ali and A. Odziejewicz. Warsaw University Press, Warsaw 2001, p. 199.
- [58] 16. Inhomogeneous cosmology – workshop report (Edited by A. Krasinski). In: *The Ninth Marcel Grossman Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories*. Edited by V. G. Gurzadyan, R. T. Jantzen and R. Ruffini. World Scientific, New Jersey, London, Singapore, Hong Kong 2002, p. 627.
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Jantzen and R. Ruffini. World Scientific, New Jersey, London, Singapore, Hong Kong 2002, p. 1701.

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- [61] 19. Charles Hellaby and A. Krasinski, Szekeres models and their wormholes. In: *The Tenth Marcel Grossman Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories*. Edited by M. Novello, S. P. Bergliaffa and R. Ruffini. World Scientific, New Jersey, London, Singapore, Beijing, Shanghai, Hong Kong, Taipei, Chennai 2005, p. 29.
- [62] 20. A. Krasinski and Charles Hellaby, Structure formation in the Universe by exact methods. In: *The Tenth Marcel Grossman Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories*. Edited by M. Novello, S. P. Bergliaffa and R. Ruffini. World Scientific, New Jersey, London, Singapore, Beijing, Shanghai, Hong Kong, Taipei, Chennai 2005, p. 80.
- [63] 21. A. Krasinski and Charles Hellaby, Structure formation in the Lemaître–Tolman cosmological model (a non-perturbative approach). In: *Topics in mathematical physics, general relativity and cosmology, in honor of Jerzy Plebański*. Proceedings of 2002 international conference. Edited by H. Garcia-Compean, B. Mielnik, M. Montesinos and M. Przanowski. World Scientific, New Jersey, London, Singapore, Beijing, Shanghai, Hong Kong, Taipei, Chennai 2006, p. 279.
- [64] 22. A. Krasinski and Krzysztof Bolejko, Nonsingular collapse of spherically symmetric charged dust. In: *Proceedings of 11th Marcel Grossman Meeting*. Edited by H. Kleinert, R.T. Jantzen and R. Ruffini, World Scientific, Singapore, 2008, p. 700.

4 Communications printed in conference volumes (Note: short conference abstracts are not included in this list at all)

- [65] 1. A class of rotating and expanding Universes. In: *8th International Conference on General Relativity and Gravitation*. University of Waterloo 1977, p. 216.
- [66] 2. Ellipsoidal spacetimes. In: *8th International Conference on General Relativity and Gravitation*. University of Waterloo 1977, p. 217.

- [67] 3. A. Krasinski and Marek Perkowski, ORTOCARTAN - a computer program for calculating curvature tensors. In: *9th International Conference on General Relativity and Gravitation*. University of Jena 1980, p. 106.
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- [69] 5. A Newtonian model of the Kerr gravitational field. In: *9th International Conference on General Relativity and Gravitation*. University of Jena 1980, p. 46.
- [70] 6. Symmetries of the Riemann tensor. In: *10th International Conference on General Relativity and Gravitation*. University of Padua 1983, p. 290.
- [71] 7. The system ORTOCARTAN for algebraic calculations - new developments. In: *10th International Conference on General Relativity and Gravitation*. University of Padua 1983, p. 433.
- [72] 8. The Universe with varying topology of spatial slices. In: *10th International Conference on General Relativity and Gravitation*. University of Padua 1983, p. 841.
- [73] 9. The program ORTOCARTAN - developments since 1983. In: *11th International Conference on General Relativity and Gravitation*. University of Stockholm 1986, p. 58.
- [74] 10. Spacetimes with conformally flat flow-orthogonal sections. In: *11th International Conference on General Relativity and Gravitation*. University of Stockholm 1986, p. 327.
- [75] 11. A unified representation of the shearfree normal models. In: *12th International Conference on General Relativity and Gravitation*. University of Colorado at Boulder 1989, p. 341.
- [76] 12. Cosmological exact solutions. In: *12th International Conference on General Relativity and Gravitation*. University of Colorado at Boulder 1989, p. 340.
- [77] 13. The program ORTOCARTAN - now available on Atari. In: *13th International Conference on General Relativity and Gravitation*. University of Cordoba 1992, p. 305.
- [78] 14. Cosmology in an inhomogeneous Universe. In: *13th International Conference on General Relativity and Gravitation*. University of Cordoba 1992, p. 378.

5 Technical reports (distributed as preprints or electronic recordings; not otherwise published)

- [79] 1. A. Krasieński, Marek Perkowski and Zdzisław Otwinowski, The system ORTOCARTAN for analytic calculations. Detailed description. Preprint (1979), documentation to the program.
- [80] 2. A. Krasieński and Marek Perkowski, The system ORTOCARTAN - user's manual. Preprint (1st issue 1979, 2nd issue 1980), documentation to the program.
- [81] 3. A. Krasieński and Marek Perkowski, The system ORTOCARTAN - user's manual. Third edition, Cologne 1983. Updated documentation to the program, stored and distributed on a magnetic tape.
- [82] 4. A. Krasieński, Marek Perkowski, Zdzisław Otwinowski and Marek Kwaśniewski, The system ORTOCARTAN for analytic calculations. Detailed description. Second edition, Warsaw 1984. Updated documentation to the program, stored and distributed on a magnetic tape.
- [83] 5. The system ORTOCARTAN - user's manual. Supplement to the second edition. Preprint (1984), documentation to the program (included in later updates).
- [84] 6. A. Krasieński and Marek Perkowski, The system ORTOCARTAN - user's manual. Fourth edition, Warsaw 1992. Revised and extended documentation to the program, stored and distributed on diskettes.
- [85] 7. A. Krasieński and Marek Perkowski, The system ORTOCARTAN - user's manual. Fifth edition, Warsaw 2000. Revised and extended documentation to the program, stored on disk, distributed by email only.

6 Notes of lecture courses given at research schools (those given in Poland are marked with PPP)

- [86] 1. A survey of cosmological models. *Acta Cosmologica* **7**, 101 (1978). (PPP)
- [87] 2. Rotational motion of matter in general relativity. *Acta Cosmologica* **7**, 119 (1978). (PPP)
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- [89] 4. Symmetries of manifolds and tensor fields and the Bianchi classification. In: *Proceedings of the Instructional Workshop on Advanced Aspects of General Relativity, vol. I*. Edited by A. Banerjee. Jadavpur University and the Indian Association for the Cultivation of Science, Calcutta 1989, p. 6.

7 Semi-popular texts for physicists + review papers (all in Polish)

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- [95] 6. Figures of equilibrium, Part 2 - Homogeneous figures. *Postępy Astronomii* **29**, 31 (1981).
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- [99] 10. What is space and what space do we live in? (the point of view of a nonquantum physicist). In: *Space in Contemporary Science*. Edited by S. Symotiuk and G. Nowak. Publishing House of the Maria Curie-Skłodowska University, Lublin 2000, p. 11.
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9 Editorial notes about classic papers on relativity

- [106] 1. [The Lanczos 1924 paper on rotating dust] *Gen. Rel. Grav.* **29**, 359 (1997).
- [107] 2. [The Lemaitre 1933 paper on his inhomogeneous cosmological model] *Gen. Rel. Grav.* **29**, 637 (1997).
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- [109] 4. [The Sen 1934 paper on the Lemaitre-Tolman model] *Gen. Rel. Grav.* **29**, 1473 (1997).
- [110] 5. [The McCrea 1939 paper on observations in inhomogeneous models] *Gen. Rel. Grav.* **30**, 311 (1998).
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- [112] 7. [The Bonnor 1956 paper on the formation of “nebulae”] *Gen. Rel. Grav.* **30**, 1111 (1998).
- [113] 8. [The Shirokov-Fisher 1962 paper on averaging out spatial inhomogeneities in cosmological models] *Gen. Rel. Grav.* **30**, 1407 (1998).
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- [115] 10. [The Vaidya papers on his radiating metric] *Gen. Rel. Grav.* **31**, 115 (1999).
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- [124] 19. A. Krasinski, Christoph G. Behr, Engelbert Schücking, Frank B. Estabrook, Hugo D. Wahlquist, George F. R. Ellis, Robert Jantzen and Wolfgang Kundt, The Bianchi classification in the Schücking–Behr approach. *Gen. Rel. Grav.* **35**, 475 (2003).
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10 Short biographies of relativists (accompanying the Oldies from the previous section)

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- [134] 4. Mikhail Fedorovich Shirokov *Gen. Rel. Grav.* **30**, 1408 (1998).
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- [136] 6. Kurt Gödel *Gen. Rel. Grav.* **32**, 1407 (2000).
- [137] 7. Edward Arthur Milne *Gen. Rel. Grav.* **32**, 1935 (2000).
- [138] 8. Ivor Malcolm Haddon Etherington *Gen. Rel. Grav.* **39**, 1053 (2007).
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11 Popular articles for open public (all in Polish)

- [145] 1. What is relativity theory; part 1: Geometrical foundations. *Delta* no 5 (1978), p. 6.
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- [149] 5. The Archimedes law. *Delta* no 5 (1980), p. 8.
- [150] 6. Does Nature use tools? *Delta* no 8 (1980), p. 12 (same text later reprinted in the book “To see differently”, Alfa publishers, Warsaw 1986, p. 69, without my name signed).

- [151] 7. How the chemical elements came into being; part 1. *Urania* **60** no 9, 258 (1989).
- [152] 8. How the chemical elements came into being; part 2. *Urania* **60** no 10, 290 (1989).
- [153] 9. Tidal forces on the Earth and in the Solar System. *Delta* no 11 (1991), p. 1.
- [154] 10. Physics in an inhomogeneous Universe. *Urania - Postępy Astronomii* **41** no 1, 29 (1993).
- [155] 11. Gravitational lenses. *Delta* no 7 (1995), p. 1.
- [156] 12. More on gravitational lenses. *Urania - Postępy Astronomii* **43** no 3, 124 (1995).
- [157] 13. Gravitational radiation. *Urania - Postępy Astronomii* **44** no 1, 124 (1996).
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- [159] 15. Theory of relativity – what is it and what is it used for? *Urania - Postępy Astronomii* **73** no 5, 196 (2002).
- [160] 16. Behind the cosmic event horizon. *Urania - Postępy Astronomii* **75** no 1, 6 (2004).

12 Other popular texts

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13 Short popular notes (all in Polish)

- [162] 1. Praise to precision. *Delta* no 1 (1980), p. 2.
- [163] 2. Nobel for the diligent. *Delta* no 1 (1980), p. 4.
- [164] 3. Praise to imprecision. *Delta* no 1 (1980), p. 6.
- [165] 4. What do we like less. *Delta* no 1 (1980), p. 9.
- [166] 5. Praise to restraint. *Delta* no 1 (1980), p. 11.
- [167] 6. [A problem to solve]. *Delta* no 1 (1980), p. 13.
- [168] 7. [Three problems to solve]. *Delta* no 3 (1980), p. 4.
- [169] 8. When I was a fish. *Delta* no 8 (1980), p. 17.

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- [178] 2. Research on thermonuclear fusion at the Max Planck Plasma Physics Institute (by B. Röthlein, translated from English, from submitted manuscript). *Delta* no 11 (1980), p. 6.
- [179] 3. How to detect an extraterrestrial civilization (by B. Murray, S. Guilkis and R. E. Edelson, from *Science* **199**, 485 (1978)). *Delta* no 11 (1980), p. 10.
- [180] 4. Electromagnetic detectors of gravitational waves (by L. Grishchuk and M. Sazhin, translated from Russian, from submitted manuscript). *Delta* no 3 (1981), p. 4.
- [181] 5. Metaflation? (by G. F. R. Ellis and T. Rothman, translated from English, from a Univ. of Cape Town preprint). *Postępy Fizyki* **38**, 511 (1987); same text: *Postępy Astronomii* **35**, 169 (1987).

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- [182] 1. The Universe that can open up or close. Paper awarded the “honorable mention” award in the 1981 Gravity Research Foundation Competition.
- [183] 2. Irregular cosmological models. Summary of the habilitation work, submitted for promotion to Associate Professor (1983).