

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/gb/knowledge/isbn/item1173175/?site_locale=en_GB
(click on “Resources” and then on “Revised errata”)
- [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 2010, 242 pp, ISBN 978-0-521-76914-3.

2 Other books

- [4] 1. A. Krasinski, George F. R. Ellis, Malcolm A. H. MacCallum (editors). Golden Oldies in general relativity, volume 1: Hidden gems. Springer, Heidelberg, in preparation.

3 Research papers published in refereed international journals

- [5] 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).
- [6] 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).

- [7] 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.
- [8] 4. Some solutions of the Einstein field equations for a rotating perfect fluid distribution. *J. Math. Phys.* **16**, 125 (1975).
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- [17] 13. ORTOCARTAN - a program for algebraic calculations in general relativity. *SIGSAM Bulletin* **17** no 3 - 4, 12 (1983).
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- [25] 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).
- [26] 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).
- [27] 23. Rotating dust solutions of Einstein's equations with 3-dimensional symmetry groups; Part 3: All Killing fields linearly independent of u^α and w^α . *J. Math. Phys.* **39**, 2148 (1998).
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- [36] 32. Charles Hellaby and A. Krasinski, Alternative methods of describing structure formation in the Lemaitre – Tolman model. *Phys. Rev.* **D73**, 023518 (2006).
- [37] 33. A. Krasinski and Krzysztof Bolejko, Avoidance of singularities in spherically symmetric charged dust. *Phys. Rev.* **D73**, 124033 (2006) + erratum *Phys. Rev.* **D75**, 069904 (2007). Fully corrected text available from gr-qc 0602090.

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- [49] 45. A. Krasinski and Krzysztof Bolejko, Apparent horizons in the quasi-spherical Szekeres models. arXiv:1202.5970, accepted for publication in *Phys. Rev.* **D**.

4 Research work published in refereed proceedings of international conferences

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- [54] 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.
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- [57] 8. Early inhomogeneous cosmological models in Einstein's theory. In: *Modern Cosmology in Retrospect*. Edited by B. Bertotti, R. Balbinot, S. Bergia and A. Messina. Cambridge University Press, Cambridge 1990, p. 115.
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- [59] 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.

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- [62] 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.
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5 Communications printed in conference volumes (Note: short conference abstracts are not included in this list at all)

- [72] 1. A class of rotating and expanding Universes. In: *8th International Conference on General Relativity and Gravitation*. University of Waterloo 1977, p. 216.
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- [83] 12. Cosmological exact solutions. In: *12th International Conference on General Relativity and Gravitation*. University of Colorado at Boulder 1989, p. 340.
- [84] 13. The program ORTOCARTAN - now available on Atari. In: *13th International Conference on General Relativity and Gravitation*. University of Cordoba 1992, p. 305.
- [85] 14. Cosmology in an inhomogeneous Universe. In: *13th International Conference on General Relativity and Gravitation*. University of Cordoba 1992, p. 378.

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

- [86] 1. A. Krasinski, Marek Perkowski and Zdzisław Otwinowski, The system ORTOCARTAN for analytic calculations. Detailed description. Preprint (1979), documentation to the program.
- [87] 2. A. Krasinski and Marek Perkowski, The system ORTOCARTAN - user's manual. Preprint (1st issue 1979, 2nd issue 1980), documentation to the program.
- [88] 3. A. Krasinski 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.
- [89] 4. A. Krasinski, 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.

- [90] 5. The system ORTOCARTAN - user's manual. Supplement to the second edition. Preprint (1984), documentation to the program (included in later updates).
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- [92] 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.

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

- [93] 1. A survey of cosmological models. *Acta Cosmologica* **7**, 101 (1978). (PPP)
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8 Semi-popular texts for physicists + review papers (all in Polish)

- [97] 1. Models of the Universe in general relativity. *Postępy Astronomii* **23**, 97 (1975).
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9 Short notes correcting errors in published papers by other authors

- [112] 1. Comment on “Space-times with plane-symmetric scalar waves” [J. Math. Phys. **33**, 3506 (1992)], *J. Math. Phys.* **35**, 527 (1994).
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10 Editorial notes about classic papers on relativity

- [115] 1. [The Lanczos 1924 paper on rotating dust] *Gen. Rel. Grav.* **29**, 359 (1997).
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11 Short biographies of relativists (accompanying the Oldies from the previous section)

- [140] 1. Kornel Lanczos, *Gen. Rel. Grav.* **29**, 360 (1997).
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- [142] 3. Richard Chace Tolman, *Gen. Rel. Grav.* **29**, 932 (1997).
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- [157] 18. Howard Percy Robertson, *Gen. Rel. Grav.*, to be published.

12 Popular articles for open public (all in Polish)

- [158] 1. What is relativity theory; part 1: Geometrical foundations. *Delta* no 5 (1978), p. 6.
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