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## **Graphs and Matrices**

K. Manjunatha Prasad

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## EDITED VOLUMES

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1. Steve Kirkland, K. Manjunatha Prasad, Sukanta Pati and Simo Puntanen (Eds), *Linear Algebra with Applications* (ISBN : 978-93-82460-20-6), Manipal University Press, December 2014.
2. Ravindra B. Bapat, Steve Kirkland, K. Manjunatha Prasad and Simo Puntanen (Eds), *Combinatorial Matrix Theory and Generalized Inverses of Matrices*, (ISBN: 978-81-322-1052-8 (Print) 978-81-322-1053-5 (Online)) SPRINGER India 2013. DOI 10.1007/978-81-322-1053-5.
3. Ravindra B. Bapat, Steve Kirkland, K. Manjunatha Prasad and Simo Puntanen (Eds), *Lectures on Matrix and Graph Methods* (ISBN 978-81-922759-6-3), Manipal University Press, July 2012.

## ARTICLES CONTRIBUTED

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1. Rajendra Bhatia, Steve Kirkland, K. Manjunatha Prasad and Simo Puntanen. *Preface: Special Volume of Electronic Journal of Linear Algebra dedicated to Professor Ravindra B Bapat*. *Electronic Journal of Linear Algebra* 29 : 1-2 (2015).
2. Arbind Kumar Lal, K. Manjunatha Prasad, and Sukanta Pati. *Venturing into something new: An interview with Ravindra Bapat*. *Image* 54: 3-6 (2015).
3. K. Manjunatha Prasad. *A Report on ICLAA 2014, MAHE, Manipal*. *Image* 54: 23-24 (2015).
4. K. Manjunatha Prasad. *Ravindra B. Bapat: A brief Note on his Life and Work*, In: *Linear Algebra with Applications* (ISBN : 978-93-82460-20-6), Eds. Steve Kirkland, K. Manjunatha Prasad, Sukanta Pati and Simo Puntanen, Manipal University Press, December 2014.
5. Ravindra B. Bapat and K. Manjunatha Prasad. *A report on CMTGIM 2012, Manipal, "Combinatorial Matrix Theory and Generalized Inverses of Matrices"* Eds. Ravindra B. Bapat, Steve Kirkland, K. Manjunatha Prasad and Simo Puntanen SPRINGER India 2013. P 253 –274. DOI: 10.1007/978-81-322-1053-5\_19.

## TECHNICAL REPORTS

---

1. K. Manjunatha Prasad and K. P. S. Bhaskara Rao, *Integral Domains over which every Regular Matrix has a Rank Factorization*, Tech Report, Indian Statistical Institute, Bangalore (1990).
2. K. Manjunatha Prasad, *Generalized Inverses over Banach Algebra*, Tech Report, Indian Statistical Institute, Bangalore (1992).
3. Y. Santhi Sheela and H. Naik and K. Manjunatha Prasad and S. Ganesan and N. Sreekumaran Nair and S.V. Suryanarayana, *Covariance analysis in the efficiency calibration of HPGe detector*, Tech Report, MU/STATISTICS/DAE-BRNS/2017/1 (2017).
4. Y. Santhi Sheela and H. Naik and K. Manjunatha Prasad and S. Ganesan and N. Sreekumaran Nair and S. V. Suryanarayana, *The efficiency and error covariance matrix of HPGe detector at characteristic gamma energies of reaction products  $^{58}\text{Co}$  and  $^{115\text{m}}\text{In}$  in the measurement of  $^{59}\text{Co}(n, 2n)^{58}\text{Co}$  reaction cross section relative to  $^{115}\text{In}(n, n')^{115\text{m}}\text{In}$* , Tech Report, MU/STATISTICS/DAE-BRNS/2017/2 (2017).
5. Y. Santhi Sheela and H. Naik and K. Manjunatha Prasad and S. Ganesan and S. V. Suryanarayana, *Detailed data sets related to covariance analysis of the measurement of cross section of  $^{59}\text{Co}(n, \gamma)^{60}\text{Co}$  reaction relative to the cross section of  $^{115}\text{In}(n, \gamma)^{116\text{m}}\text{In}$* , Tech Report, MU/STATISTICS/DAE-BRNS/2017/3 (2017).
6. Meghna Karkera and Haladhara Naik and Sripathi Punchithaya and Manjunatha Prasad and Santhi Sheela Yeraguntla and Saraswatula Venkata Suryanarayana and Srinivasan Ganesan and Vibha Vansola and Rajnikanth Makhwana, *Detailed data sets related to the covariance analysis of the measurement of  $^{232}\text{Th}(n, 2n)^{231}\text{Th}$  reaction*, Tech Report, MU/STATISTICS/DAE-BRNS/2018/4 (2018).

## RESEARCH ARTICLES AND PUBLICATIONS (ALL IN INDEXED INTERNATIONAL JOURNALS/BOOKS/PROCEEDINGS)

---

- [1] Savitha Varkady, Umashankara Kelathaya, and Manjunatha Prasad Karantha. "Drazin inverse and generalization of core-nilpotent decomposition". In: *Journal of Algebra and its Applications* (2022). DOI: <https://doi.org/10.1142/S0219498824500415>.

- [2] Raksha Poojary, Arathi Bhat K., S. Arumugam, and Manjunatha Prasad Karantha. “The stress sequence of a graph”. In: *Communications in Combinatorics and Optimization* (2021), pp. 1–13. DOI: [10.22049/CCO.2021.27320.1231](https://doi.org/10.22049/CCO.2021.27320.1231).
- [3] Raksha Poojary, K. Arathi Bhat, S. Arumugam, and Manjunatha Prasad Karantha. “The stress of wheel related graphs”. In: *National Academy Science Letters* 45(5) (2022), pp. 427–431. DOI: [10.1007/s40009-022-01149-z](https://doi.org/10.1007/s40009-022-01149-z).
- [4] Umashankar Kelathaya, Savitha Varkady, and Manjunatha Prasad Karantha. “Inverse complements and strongly unit regular elements”. In: *Journal of Algebra and its Applications* 21(10) (2022), 2250910:1–11. DOI: [10.1142/S0219498822501900](https://doi.org/10.1142/S0219498822501900).
- [5] K. Nayan Bhat, Manjunatha Prasad Karantha, and Eagambaram Narayanan. “Inverse complements of a matrix and applications”. In: *Journal of Algebra and its Applications* 20(8) (2021), 2150144:1–12. DOI: [10.1142/S0219498821501449](https://doi.org/10.1142/S0219498821501449).
- [6] A. M. Sunitha, Kamsali Nagarajan, H. B. Sachhidananda, S.V. Suryanarayana, B. Rudraswamy, Haladhara Naik, Meghna Karkera, Imran Pasha, Y. S. Sheela, and Manjunatha Prasad. “Measurement of  $^{115}\text{In}(n,2n)^{114m}\text{In}$  and  $^{197}\text{Au}(n,2n)^{196}\text{Au}$  reaction cross sections at the neutron energies of 13.52 and 14.54 MeV with covariance analysis”. In: *Journal of Radioanalytical and Nuclear Chemistry* 326(1) (2020), pp. 637–645. DOI: [10.1007/s10967-020-07303-5](https://doi.org/10.1007/s10967-020-07303-5).
- [7] H. B. Sachhidananda, S. R. Manohara, A. M. Sunitha, Imran Pasha, B. Rudraswamy, S.V. Suryanarayana, Haladhara Naik, Meghna Karkera, Y. S. Sheela, and Manjunatha Prasad. “Measurement and covariance analysis of  $^{140}\text{Ce}(n,2n)^{139}\text{Ce}$  and  $^{142}\text{Ce}(n,2n)^{141}\text{Ce}$  reactions with the neutron energy 13.5 MeV”. In: *Journal of Radioanalytical and Nuclear Chemistry* 325 (2020), pp. 885–892. DOI: [10.1007/s10967-020-07292-5](https://doi.org/10.1007/s10967-020-07292-5).
- [8] A. M. Sunitha, B. Rudraswamy, S. V. Suryanarayana, Kamsali Nagaraja, Meghna Karkera, Imran Pasha, H. B. Sachhidananda, Y. S. Sheela, and Manjunatha Prasad. “Measurement of  $^{92}\text{Mo}(n, \alpha)^{89}\text{Zr}$  and  $^{97}\text{Mo}(n,p)^{97}\text{Nb}$  reactions at the neutron energy 13.52 MeV with covariance analysis”. In: *Indian Journal of Pure and Applied Physics* 58 (2020), pp. 218–222.
- [9] Imran Pasha, Rudraswamy Basavanna, Saraswatula Venkata Suryanarayana, Haladhara Naik, Sangeetha Prasanna Ram, Laxman Singh Danu, Tarun Patel, Saroj Bishnoi, and Manjunatha Prasad Karantha. “Measurement of neutron induced reaction cross sections of palladium isotopes at the neutron energy of  $14.54 \pm 0.24$  MeV with covariance analysis”. In: *Journal of Radio analytical and Nuclear Chemistry* (2020). DOI: [10.1007/s10967-020-07218-1](https://doi.org/10.1007/s10967-020-07218-1).
- [10] Manjunatha Prasad Karantha and Savitha Varkady. “Generalized core-nilpotent decomposition”. In: *Journal of Analysis* 29 (2019), pp. 543–550. DOI: [10.1007/s41478-019-00203-2](https://doi.org/10.1007/s41478-019-00203-2).
- [11] Karkera M., Yerraguntla S., PUNCHITHAYA S., Suryanarayana S. V., Prasad M., Naik H., Ganesan S., Dhanu L., Rajeev K., Kapil D., Raj D., Patel T., Bishnoi S., and Kannan U. “Measurement and covariance analysis of  $^{232}\text{Th}(n,2n)^{231}\text{Th}$  reaction cross section”. In: *Journal of Radioanalytical and Nuclear Chemistry* 322 (2019), pp. 817–825. DOI: [10.1007/s10967-019-06722-3](https://doi.org/10.1007/s10967-019-06722-3).
- [12] Pasha I., Basavanna R., Yerraguntla S. S., Suryanarayana S. V., Karkera M., Naik H., Karantha M. P., Danu L. S., Bishnoi S., Patel T., and Kumar R. “ $^{93}\text{Nb}(n,2n)^{92m}\text{Nb}$ ,  $^{93}\text{Nb}(n, \alpha)^{90m}\text{Y}$  and  $^{92}\text{Mo}(n,p)^{92m}\text{Nb}$  reactions at 14.78 MeV and covariance analysis”. In: *Journal of Radioanalytical and Nuclear Chemistry* 320(3) (2019), pp. 561–568. DOI: [10.1007/s10967-019-06510-z](https://doi.org/10.1007/s10967-019-06510-z).
- [13] Meghna Karkera, Haladhara Naik, Sripathi PUNCHITHAYA, Manjunatha Prasad, Santhi Sheela Yerraguntla, Saraswatula Venkata Suryanarayana, Srinivasan Ganesan, Vibha Vansola, and Rajnikanth Makhwana. “Measurement and covariance analysis of  $^{232}\text{Th}(n,2n)^{231}\text{Th}$  reaction cross sections at the effective neutron energies of 8.97 and 16.52 MeV”. In: *Journal of Radioanalytical and Nuclear Chemistry* 318.3 (2018), pp. 1893–1900. DOI: [doi.org/10.1007/s10967-018-6199-0](https://doi.org/10.1007/s10967-018-6199-0).
- [14] Y. Santhi Sheela, Haladhara Naik, K. Manjunatha Prasad, S. Ganesan., N. Sreekumaran Nair, and S. V. Suryanarayana. “Measurement of  $^{59}\text{Co}(n,2n)^{58}\text{Co}$  reaction cross sections at the effective neutron energies of 11.98 and 15.75 MeV”. In: *Radiochimica Acta* 106(11) (2018), pp. 877–884. DOI: <https://doi.org/10.1515/ract-2018-2937>.
- [15] K. Nayan Bhat, Manjunatha Prasad Karantha, and Nupur Nandini. “Rank function and outer inverses”. In: *Electronics Journal of Linear Algebra* 33 (2018), pp. 16–23. DOI: [10.13001/1081-3810,1537-9582.3671](https://doi.org/10.13001/1081-3810,1537-9582.3671).
- [16] K. Nayan Bhat and Manjunatha Prasad Karantha. “Minus partial order and rank 1 summands”. In: *Bulletin of Kerala Mathematics Association* 16.1 (2018), pp. 47–58.
- [17] Manjunatha Prasad Karantha, David Raj Micheal, and M. Vinay. “Iterative method to find Core-EP inverse”. In: *Bulletin of Kerala Mathematics Association* 16.1 (2018), pp. 139–152.

- [18] Manjunatha Prasad Karantha and Nupur Nandini. “A note on Rao-regular matrices”. In: *Bulletin of Kerala Mathematics Association* 16.1 (2018), pp. 109–125.
- [19] Manjunatha Prasad Karantha and David Raj Micheal. “Bordering method to compute Core-EP inverse”. In: *Special Matrices* 6 (2018), pp. 193–200.
- [20] Ravindra B. Bapat, Manjunatha Prasad Karantha, Nupur Nandini, and Divya P. Shenoy. “Outer inverses and Jacobi type identities”. In: *Linear Algebra and its Applications* 536 (2018), pp. 274–294.
- [21] Y. Santhi Sheela, Haladhara Naik, Manjunatha Prasad Karantha, S. Ganesan, S. V. Suryanarayana, and Sylvia Badwar. “Measurement of  $^{59}\text{Co}(n, \gamma)^{60}\text{Co}$  reaction cross sections at the effective neutron energies of 11.98 and 15.75 MeV”. In: *Journal of Radioanalytical and Nuclear Chemistry* 314 (2017), pp. 457–465. DOI: <https://doi.org/10.1007/s10967-017-5374-z>.
- [22] Pallavi Upadhyaya, P. Mohanan, and K. Manjunatha Prasad. “Determinants of B2B E-marketplace adoption: An empirical study of Indian small firms”. In: *International Journal of E-Business Research* 13.4 (2017), pp. 55–69.
- [23] Ravindra B. Bapat, Surender Kumar Jain, K. Manjunatha Prasad, and M. David Raj. “Outer inverses: characterization and applications”. In: *Linear Algebra and its Applications* 528 (2017), pp. 171–184. DOI: [10.1016/j.laa.2016.06.045](https://doi.org/10.1016/j.laa.2016.06.045).
- [24] K. Arathi Bhat, K. Manjunatha Prasad, and G. Sudhakara. “Some matrix equations of graphs”. In: *Advances and Applications in Discrete Mathematics* 17.1 (2016), pp. 29–48.
- [25] Kalesh M Karun, V. S. Binu, N. Sreekumaran Nair, K. Manjunatha Prasad, Kala M Karun, Kerthana Prasad, and K. M. Girisha. “Estimation of correlation between various types of pixel intensities in a single spot”. In: *Electronics Journal of Applied Statistical Analysis (EJASA)* 9.1 (2016), pp. 58–69. DOI: [10.1285/i20705948v9n1p58](https://doi.org/10.1285/i20705948v9n1p58).
- [26] K. Manjunatha Prasad, K. S. Mohana, and Divya P. Shenoy. “Minus partial order on regular matrices”. In: *Linear and Multilinear Algebra* 64.5 (2016), pp. 929–941. DOI: [10.1080/03081087.2015.1067667](https://doi.org/10.1080/03081087.2015.1067667).
- [27] K. Manjunatha Prasad, K. V. Soumya, and G. Sudhakara. “Algorithm to identifying (2, 2) bipartite graphs”. In: *Advances and Applications in Discrete Mathematics* 17.4 (2016), pp. 397–436. DOI: [10.1285/i20705948v9n1p58](https://doi.org/10.1285/i20705948v9n1p58).
- [28] V. S. Binu, N. S. Nair, K. Manjunatha Prasad, and Kalesh M Karun. “Impact of pixel intensity correlations on statistical inferences of expression levels in cDNA microarray experiments”. In: *International journal of bioinformatics research and applications* 11.3 (2015), pp. 257–267.
- [29] Kalesh M Karun, V. S. Binu, Keerthana Prasad, N. Sreekumaran Nair, K. Manjunatha Prasad, and K. M. Girisha. “Review on image segmentation methods in cDNA microarray experiments and a novel algorithm for segmentation”. In: *International Journal of Emerging Science and Engineering (IJESE)* 3.5 (2015), pp. 19–24.
- [30] K. Manjunatha Prasad, Nupur Nandini, and Divya P. Shenoy. “Rank and dimension functions”. In: *Electronic Journal of Linear Algebra* 29.1 (2015), pp. 144–155.
- [31] K. Manjunatha Prasad, G. Sudhakara, and K. V. Soumya. “Power graph with (2,2)- bipartition”. In: *Advances and Applications in Discrete Mathematics* 16.1 (2015), pp. 51–65.
- [32] B. S. Shivashankar, S. Ganesan, Haldar Naik, S. V. Suryanarayana, N. Sreekumaran Nair, and K. Manjunatha Prasad. “Measurement and covariance analysis of reaction cross sections for  $^{58}\text{Ni}(n, p)^{58}\text{Co}$  relative to cross section for formation of Zr-97 fission product in neutron-induced fission of Th-232 and U-238 at effective neutron energies  $E_n = 5.89, 10.11, \text{ and } 15.87 \text{ MeV}$ ”. In: *Nuclear Science and Engineering* 179.4 (2015), pp. 423–433.
- [33] K. Manjunatha Prasad and K. S. Mohana. “Core-EP inverse”. In: *Linear and Multilinear Algebra* 62.6 (2014), pp. 792–802. DOI: [10.1080/03081087.2013.791690](https://doi.org/10.1080/03081087.2013.791690).
- [34] K. Manjunatha Prasad, G. Sudhakara, H. S. Sujatha, and K. V. Soumya. “Matrix rproduct (modulo-2) of graphs”. In: *Indian J. Pure Appl. Math* 45.6 (2014), pp. 851–860.
- [35] N. Eagambaram, K. Manjunatha Prasad, and K. S. Mohana. “Column space decomposition and partial order on matrices”. In: *Electronic Journal of Linear Algebra* 26.1 (2013), pp. 795–815.
- [36] K. Manjunatha Prasad, K. S. Mohana, and Y. Santhi Sheela. “Matrix partial order associated with space preorder”. In: *Combinatorial Matrix Theory and Generalized Inverses of Matrices*. Ed. by Ravindra B. Bapat, Steve Kirkland, K. Manjunatha Prasad, and Simo Puntanen. India: SPRINGER India, 2013, pp. 195–226. DOI: [10.1007/978-81-322-1053-5\\_17](https://doi.org/10.1007/978-81-322-1053-5_17).
- [37] K. Manjunatha Prasad, G. Sudhakara, H. S. Sujatha, and Vinay Madhusudhanan. “Matrix product of graphs”. In: *Combinatorial Matrix Theory and Generalized Inverses of Matrices*. Ed. by Ravindra B. Bapat, Steve Kirkland, K. Manjunatha Prasad, and Simo Puntanen. India: SPRINGER India, 2013, pp. 41–56. DOI: [10.1007/978-81-322-1053-5\\_4](https://doi.org/10.1007/978-81-322-1053-5_4).

- [38] Pallavi Upadhyaya, P. Mohanan, and K. Manjunatha Prasad. “Barriers to adoption of B2B e-marketplaces: an empirical study of Indian manufacturing MSMEs”. In: *Review of Integrative Business and Economics Research* 2.1 (2013), pp. 555–565.
- [39] V.S. Binu, N. S. Nair, K. Manjunatha Prasad, and Kalesh M Karun. “Estimation of uncertainty associated with intensity ratio in CDNA microarray experiments”. In: *Research & Reviews: A Journal of Statistics* 1.2 (2012), pp. 24–33.
- [40] K. Manjunatha Prasad. “Introduction to Generalized Inverses”. In: *Lectures on matrix and graph Methods*. Ed. by Ravindra B Bapat, Steve Kirkland, K. Manjunatha Prasad, and Simo Puntanen. India: Manipal University Press, 2012. Chap. 5, pp. 43–60.
- [41] K. Manjunath Prasad, G. Sudhakara, and H. S. Sujatha. “Partition of a graph with its complete sub-graphs”. In: *Advances and Applications in Discrete Mathematics* 10.1 (2012), pp. 1–22.
- [42] K. Manjunatha Prasad. “Generalized inverses of matrices(lecture notes, SERC 2011)”. In: *Multivariate and Matrix Calculus and Applications: Matrix Methods*. Ed. by A.M. Mathai. 2011.
- [43] K. Manjunatha Prasad, Y. Santhi Sheela, and Divya P. Shenoy. “Generalized inverse of a matrix and its applications”. In: *Proceedings of first ICAMS -2011*. Ed. by P. Biswas and Anjan Raychaudhuri. 2011, pp. 33–41.
- [44] Brian Blackwood, S. K. Jain, K. Manjunatha Prasad, and Ashish K. Srivastava. “Shorted operators relative to a partial order in a regular ring”. In: *Communications in Algebra* 37.11 (2009), pp. 4141–4152. DOI: [10.1080/00927870902828629](https://doi.org/10.1080/00927870902828629).
- [45] Pallavi Upadhyaya, P. Mohanan, and K. Manjunatha Prasad. “Can SME’s in India benefit from B2B Electronic Market Places?” In: *RVIM Journal of Management Research* 1.2 (2009), pp. 63–68.
- [46] Pallavi Upadhyaya, P. Mohanan, and K. Manjunatha Prasad. “Electronics market place adoption by Indian SME’s: A conceptual framework”. In: *Proceedings of 2009 International Conference on Economics, Business management and Marketing*. 2009.
- [47] R. E. Hartwig and K. Manjunatha Prasad. “Creation and annihilation in Matrix Theory”. In: *Linear Algebra and Application* 305 (2000), pp. 47–65. DOI: [10.1016/S0024-3795\(99\)00197-4](https://doi.org/10.1016/S0024-3795(99)00197-4).
- [48] Ravindra B. Bapat, S. K. Jain, and K. Manjunatha Prasad. “Generalized power symmetric stochastic matrices”. In: *Proceedings of the American Mathematical Society* 7.127 (1999), pp. 1987–1994.
- [49] Ravindra B. Bapat and K. Manjunatha Prasad. “Cochran’s theorem and related results on matrix rank over a commutative ring”. In: *Statistical Inference and Design of Experiments (UJ Dixit and MR Satam Ed.)* (1999), pp. 125–133.
- [50] S. K. Jain and K. Manjunatha Prasad. “Right-left symmetry of  $aR \oplus bR = (a + b)R$  in regular rings”. In: *Journal of Pure and Applied Algebra* 133.1-2 (1998), pp. 141–142. DOI: [10.1016/S0022-4049\(97\)00189-8](https://doi.org/10.1016/S0022-4049(97)00189-8).
- [51] K. Manjunatha Prasad. “Solvability of linear equations and rank-function”. In: *Communications in Algebra* 25.1 (1997), pp. 297–302.
- [52] S. K. Mitra and K. Manjunatha Prasad. “The regular shorted matrix and the hybrid sum”. In: *Advances in Applied Mathematics* 18.4 (1997), pp. 403–422. DOI: [10.1006/aama.1996.0520](https://doi.org/10.1006/aama.1996.0520).
- [53] Sujit Kumar Mitra and K. Manjunatha Prasad. “The nonunique parallel sum”. In: *Linear algebra and its applications* 259 (1997), pp. 77–99. DOI: [10.1016/S0024-3795\(96\)00243-1](https://doi.org/10.1016/S0024-3795(96)00243-1).
- [54] Sujit Kumar Mitra and K. Manjunatha Prasad. “The nonunique shorted matrix”. In: *Linear algebra and its applications* 237 (1996), pp. 41–70. DOI: [10.1016/0024-3795\(95\)00599-4](https://doi.org/10.1016/0024-3795(95)00599-4).
- [55] K. Manjunatha Prasad and K.P.S. Bhaskara Rao. “On bordering of regular matrices”. In: *Linear algebra and its applications* 234 (1996), pp. 245–259. DOI: [10.1016/0024-3795\(94\)00116-2](https://doi.org/10.1016/0024-3795(94)00116-2).
- [56] K. Manjunatha Prasad. “Generalized inverses of matrices over commutative rings”. In: *Linear Algebra and its Applications* 211 (1994), pp. 35–52. DOI: [10.1016/S0024-3795\(01\)00295-6](https://doi.org/10.1016/S0024-3795(01)00295-6).
- [57] Ravindra B. Bapat and K. Manjunatha Prasad. “A note on Khatri inverse”. In: *Sankya* 54.2 (1992), pp. 291–295.
- [58] K. Manjunatha Prasad and Ravindra B. Bapat. “The generalized Moore-Penrose inverse”. In: *Linear Algebra and its Applications* 165 (1992), pp. 59–69. DOI: [0.1016/0024-3795\(92\)90229-4](https://doi.org/10.1016/0024-3795(92)90229-4).
- [59] K. Manjunatha Prasad, K. P. S. Bhaskara Rao, and Ravindra B. Bapat. “Generalized inverses over integral domains. II. Group inverses and Drazin inverses”. In: *Linear Algebra and its Applications* 146 (1991), pp. 31–47. DOI: [10.1016/0024-3795\(91\)90018-R](https://doi.org/10.1016/0024-3795(91)90018-R).
- [60] Ravindra B. Bapat, K. P. S. Bhaskara Rao, and K. Manjunatha Prasad. “Generalized inverses over integral domains”. In: *Linear Algebra and its Applications* 140 (1990), pp. 181–196. DOI: [10.1016/0024-3795\(90\)90229-6](https://doi.org/10.1016/0024-3795(90)90229-6).