

BIBLIOGRAPHY

- [1] A. K. Biradar, D.Y. Patil, *Review paper on a semigraph*, International Journal of Innovations in Engineering and Technology, 12(1) (2018), 030 - 031.
- [2] B. D. Acharya, E. Sampathkumar, *Graphoidal covers and graphoidal covering number of a graph*, J. Pure Appl. Math., 18(10) (1987), 882-890.
- [3] B. J. McClelland. *Properties of the latent roots of a matrix: The estimation of π -electron energies*, J. Chem. Phys., 54 (1971), 640-643.
- [4] B. Y. Bam, *On some problems of graph theory in semigraphs*, Ph.D. Thesis, University of Pune, (2005).
- [5] C. Adiga, A. Bayad, I Gutman and S. A. Srinivas, *The minimum covering energy of a graph*, Kragujevac J. Sci., 34 (2012), 39-56.
- [6] C. Adiga, E. Sampathkumar, M. A. Sriraj and A. S. Shrikanth, *Color energy of a graph*, Proc. Jangjeon Math. Soc., 16(3) (2013), 335-351.
- [7] C. Adiga, R. Balakrishnan and W. So, *The skew energy of a digraph*, Linear Algebra and its Applications, 432 (2010), 1825-1835.
- [8] C. Berge, *Graphs and hypergraphs*, Elsevier, New York, (1973).
- [9] C. Berge, *Hypergraphs: The theory of finite sets*, North-Holland, Amsterdam, (1989).
- [10] C. M. Deshpande, Y. S. Gaidhani, *About adjacency matrix of semigraphs*, International Journal of Applied Physics and Mathematics, 2(4) (2012), 250-252.
- [11] C. M. Deshpande, Y. S. Gaidhani, B. P. Athawale, *Incidence matrix of a semigraph*, British Journal of Mathematics & Computer Science, 9(1) (2015), 12 - 20.
- [12] D. B. West, *Introduction to graph theory*, Prentice hall, New Jersey, (2001).
- [13] E. Sampathkumar and M. A. Sriraj, *Vertex labeled/colored graphs, matrices and signed graphs*, J. Combinator. Inform. Syst. Sci., 38(14) (2013), 113-120.
- [14] E. Sampathkumar, L. Pushpalata, *Matrix representation of semigraphs*, Adv. Stud. Contemp. Math. Kyungshang, 14(1) (2007), 103-109.
- [15] E. Sampathkumar, *Semigraphs and their applications*, Report on the DST project, India, (2000).

- [16] E. Sampathkumar, *Semigraphs and their applications*, Academy of discrete mathematics and application, India, (2019).
- [17] F. Harary, *Graph theory*, Narosa Publishing House, New Delhi (1988).
- [18] G. Chartrand, L. Lesniak, *Graphs and digraphs*, The Wadsworth & Brooks/Cole Advanced Books & Software Monterey, California, (1986).
- [19] G. Indulal, I. Gutman and A. Vijayakumar, *On distance energy of graphs*, Match Communications in Mathematical and in Computer Chemistry, 60 (2008), 461-472.
- [20] F. Heider, *Attitudes and cognitive organization*, J. Psychol., 21 (1946), 107-112.
- [21] I. Gutman and O. E. Polansky, *Mathematical concepts in organic chemistry*, Springer, Berlin, (1986).
- [22] I. Gutman, *The energy of a graph*, Ber. Math. Statist Sekt. Forshungsz. Graz, 103 (1978), 1-22.
- [23] J. Koolen and V. Moulton, *Maximal energy graphs*, Adv. Appl. Math., 26(1) (2001), 47-52.
- [24] J. W. T. Youngs, G. Ringel, *Solution of the heawood map-coloring problem*, Proc. Nat. Acad. Sci. USA, 60 (1968), 438-445.
- [25] K. Kayathri, M. S. Vijayan, *Coloring of complete semigraphs*, Acta Cienc. Indica, Math., 33(2) (2007), 605-614.
- [26] K. Kayathri, S. P. Selvam, *Edge complete (p, 2) semigraphs*, Ars Comb., 84 (2007), 65-76.
- [27] K. Kayathri, S. P. Selvam, *Edge complete (p, 3) semigraphs*, Acta Cienc. Indica, Math., 33(2) (2007), 621-632.
- [28] K. Kayathri, S. P. Selvam, *Enumeration of one type of Edge complete (p,3) semigraphs*, International Journal of Algorithm, Computing and Math., 3(4) (2010), 42-52.
- [29] M. R. R. Kanna, R. P. Kumar and B. N. Dharmendra, *Minimum covering distance energy of a graph*, Applied Mathematical Science, 7(111) (2013), 5525-5536.

- [30] M. R. R. Kanna, R. P. Kumar and R. Jagadeesh, *Minimum covering color energy of a graph*, International Journal of Mathematical Analysis, 9(8) (2015), 351-364.
- [31] N. Biggs, *Algebraic graph theory*, Cambridge University Press, London (1974).
- [32] N. Murugesan, D. Narmatha, *A study on e-domination of cartesian product of a class of path semigraphs*, Iconic Research and Engineering Journals, 2(6) (2018), 18-27.
- [33] N. S. Bhave, B. Y. Bam, C. M. Deshpande, *Line semigraph of a semigraph*, Adv. Stud. Contemp. Math. Kyungshang, 18(2) (2009), 161-180.
- [34] P. B. Joshi and M. Joseph, *Further results on color energy of graphs*, Acta Univ. Sapientiae Inform., 9(2) (2017), 119-131.
- [35] P. B. Joshi and M. Joseph, *On new bounds for color energy of graphs*, Int. J. Pure Appl. Math., 117(11) (2017), 25-33.
- [36] P. Das, S. K. Nath, *Factorization in semigraphs*, Int. J. Math. Sc. & Engg. Appl., 5(6) (2011), 95-100.
- [37] P. Das, S. K. Nath, *The genus of semigraphs*, Int. J. Math. Sc. & Engg. Appl., 5(5) (2011), 425-432.
- [38] P. G. Bath and S D'Souza, *Color signless Laplacian energy of graphs*, AKCE International Journal of Graphs and Combinatorics 14 (2017), 142-148.
- [39] P. J. Heawood, *Map colour theorems*, Quart. J. Math., 24 (1890), 332-338.
- [40] P. R. Hampiholi, J. P. Kitturkar, *Partial edge incidence matrix of semigraph over GF (2²)*, International Journal of Engineering Research & Technology, 3(9) (2014), 1213-1216.
- [41] P. R. Hampiholi, J. P. Kitturkar, *Strong circuit matrix and strong path matrix of a semigraph*, Annuals of Pure and Applied Mathematics, 10(2) (2015), 247-254.
- [42] P. R. Hampiholi, M. M. Kaliwal, *Operations on semigraphs*, Bulletin of Mathematical Sciences and Applications, 18 (2017), 11-22.
- [43] P. R. Hampiholi, H. S. Ramane, S. S. Shirkol, M. M. Kaliwal, S. R. Hebbar, *A note on signed semigraphs*, International Journal of Computational and Applied Mathematics, 12(3) (2017), 887-898.

- [44] R. B. Bapat, *Graphs and matrices*, Springer, New Delhi, India, (2010).
- [45] R. Rehman and I. C. F. Ipsen, *Computing characteristic polynomials from eigenvalues*, SIAM J. Matrix Anal. Appl., 32 (2011), 90-114.
- [46] S. Gomathi, R. Sundareswaran, V. Swaminathan, *(m, e)-Domination in semigraphs*, Electronic Notes in Discrete Mathematics, 33 (2009), 75-80.
- [47] S. J. Bharathi, P. R. Indhu, *An algebraic study on automaton of splicing system*, International Journal of Science Technology and Management, 4(11) (2015), 123-136.
- [48] S. J. Bharathi, J. Padmeshree, S. S. Selvi, K. Thiagarajan, *Semigraph structure on DNA splicing system*, Bio-inspired computing theories and Application, (2011), 182-187.
- [49] S. J. Bharathi, M. Angayarkanni, S. S. Selvi, R. Anusha, *Bipartite semigraph structure in DNA splicing system*, International Journal of Computer Application, 6(2) (2012), 56-62.
- [50] S. K. Nath, A. K. Nandi, *Adjacency matrix of signed semigraphs*, Advances and Applications in Discrete Mathematics, 27(2) (2021), 193-207.
- [51] S. K. Nath, I. Gutman and A. K. Nandi, *Distance matrix and energy of semigraph*, Bulletin of the International Mathematical Virtual Institute, 11(3) (2021), 597-603.
- [52] S. K. Nath, P. Das, *The thickness, coarseness and crossing number of semigraphs*, Proceedings of Jangjeon Mathematical Society, 17(1) (2014), 107-113.
- [53] S. K. Nath, P. Das, *Matching in semigraphs*, International Journal of Computer Application, 6(3) (2013), 21-38.
- [54] S. K. Nath, *Some aspects of semigraphs*, Ph.D. Thesis, University of Gauhati, (2013).
- [55] S. S. Shirkol, P. R. Hampiholi, M. M. Kaliwal, *Domination functions in semigraphs*, International Journal of Engineering Research & Technology, 5(2) (2016), 28-31.
- [56] S. Saravanan, R. Poovazhaki, N. R. Shanker, *Cluster topology in WSN with SCPS for QoS*, Wireless Personal Communications an International Journal, 99(3) (2018), 1295-1314.

- [57] S. S. Kamath, R. S. Bhat, *Domination in semigraphs*, Electronic Note in Discrete Mathematics, 15 (2003), 106-111.
- [58] S. S. Kamath, S. R. Hebbar, *Domination critical in semigraphs*, Electronic Note in Discrete Mathematics, 15 (2003), 113.
- [59] S. S. Kamath, S. R. Hebbar, *Strong and weak domination, full sets and domination balance in semigraphs*, Electronic Note in Discrete Mathematics, 15 (2003), 112.
- [60] V. Nikiforov, *The energy of graphs and matrices*, J. Math. Anal. Appl., 326 (2007), 1472-1475.
- [61] V. S. Shigehalli and K. S. Betageri, *Color Laplacian energy of graphs*, Journal of Computer and Mathematical Sciences, 6(9) 2015, 485-494.
- [62] Y. B. Venkatakrishnan, V. Swaminathan, *Bipartite theory of semigraphs*, WSEAS Trans. Math., 1(11) (2012), 1-9.
- [63] Y. B. Venkatakrishnan, V. Swaminathan, *Hyper domination in bipartite semigraphs*, WSEAS Trans. Math., 10(11) (2012), 866-875.
- [64] Y. S. Gaidhani, C. M. Deshpande and S Pirzada, *Energy of a semigraph*, AKCE International Journal of graphs and Combinatorics, 16 (2019), 41-49.
- [65] Y. S. Gaidhani, C. M. Deshpande, B. P. Athawale, *Adjacency matrix of a semigraph*, Electronic Notes in Discrete Mathematics, 63 (2017), 399-406.