

## Publication List

### Michael S. Jacobson

#### A. Edited Books & Volumes

1. *Surveys in Graph Theory, Volume I*. Edited by G. Chartrand and M.S. Jacobson, *Utilitas Mathematica Publishing Co. Inc.*, Winnipeg, MB, 1996.
2. *Surveys in Graph Theory, Volume II*. Edited by G. Chartrand and M.S. Jacobson. *Utilitas Mathematica Publishing Co. Inc.*, Winnipeg, MB, 1996.
3. *Combinatorics and Number Theory*. Papers from the International Conference on Discrete Mathematics and Number Theory held in Tiruchirappalli, January 3--6, 1996. Edited by R. Balakrishnan, J.-C. Bermond, M. S. Jacobson and P. Paulraja. *Discrete Math.* Vol. **206** (1999), no. 1-3. North-Holland Publishing Co., Amsterdam, 1999. pp. iii—x and 1—218.

#### B. Refereed Journal Articles

##### 1980

1. Jacobson, M.S., “A note on Ramsey multiplicity”, *Disc Math* **29** (1980), 201-203.
2. Duffus, D., Gould, R., and Jacobson, M.S., “Forbidden subgraphs and the Hamiltonian theme”, *Proceedings of the 1980 International Conference on Graph Theory*, Kalamazoo, MI, 297-315.

##### 1981

3. Jacobson, M.S., “A note on the Ramsey number for the union of graphs versus many graphs”, *Congressus Numerantium*, Vol. **33** (1981), 39-45.

##### 1982

4. Jacobson, M.S., “On a Generalization of Ramsey Theory”, *Disc Math* **38** (1982), 181-195.
5. Gould, R. and Jacobson, M.S., “Forbidden subgraphs and Hamiltonian properties of graphs”, *Disc Math* **42** (1982), 189-196.
6. Jacobson, M.S., “On the Ramsey multiplicity for stars”, *Disc. Math.* **42** (1982), 63-66.
7. Gould, R., Jacobson, M.S., “Bounds for the Ramsey number of a disconnected graph”, *Journal Graph Theory*, Vol. **6** (1982), 413-417.
8. Jacobson, M.S. and Kinch, L., “On the multiplicity of stars versus complete graphs”, *Ars Combinatoria*, Vol. **14** (1982), 253-260.

##### 1983

9. Gould, R. and Jacobson, M.S., “On the Ramsey number of trees versus graphs with large clique number”, *Journal of Graph Theory*, Vol. **7** (1983), 71-78.
10. Gould, R. and Jacobson, M.S., “A note on mixed Ramsey numbers: total chromatic number versus complete graphs”, *J.C.I.S.S.*, **8** (1983), No. 3, 181-184.

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11. Jacobson, M.S., “On the Ramsey number for stars and a complete graph”, *Ars Combinatoria*, Vol. **17** (1984), 167-172.
12. Cleves, E. and Jacobson, M. S., “On mixed Ramsey numbers: total chromatic number versus graphs”, *Congressus Numerantium*, vol **39** (1984) 193-202.
13. Jacobson, M.S. and Kinch, L., “On the domination number of products of graphs: I”, *Ars Combinatoria*, Vol. **18** (1984), 33-44.
14. Gould, R. and Jacobson, M.S., “Forbidden subgraphs and Hamiltonian properties in the square of a connected graph”, *J. Graph Theory* **8** (1984), 147-154.

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15. Fink, J., Jacobson, M.S., Kinch, L. and Roberts, J., “Randomly H-coverable graphs”, *Periodica Mathematica Hungarica*, Vol **16** (1985) 15-22.
16. Davitt, R., Fink, J. and Jacobson, M.S., “On isopart parameters of complete bipartite graphs and n-cubes”, *Mathematica Slovaca*, **35** (1985), No. 4, 409-416.
17. Fink, J., Jacobson, M.S., Kinch, L. and Roberts, J., “On graphs having domination number half their order”, *Periodica Mathematica Hungarica*, **4** (1985), 63-69.
18. Fink, J. and Jacobson, M.S., “n-domination in graphs”, *Proceedings of the 5th International Conference on Graph Theory*, Kalazamoo, MI, (1985), 283-300.
19. Fink, J. and Jacobson, M.S., “On n-domination, n-dependence and forbidden subgraphs”, *Proceedings of the 5th International Conference on Graph Theory*, Kalamazoo, MI (1985), 301-312.
20. Andrews, J. and Jacobson, M.S., “On a generalization of chromatic number”, *Congressus Numerantium*, **47** (1985), 33-48.

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21. Jacobson, M.S. and Kinch, L., “On the domination number of products of graphs II: trees”, *Journal of Graph Theory*, Vol. **10** (1986), 97-106.

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22. Andrews, J. and Jacobson, M.S., “On a generalization of chromatic number and two types of Ramsey numbers”, *Ars Combinatoria*, **23** (1987), 97-102.
23. Faudree, R., Gould, R., Jacobson, M.S., and Schelp, R., “Extremal problems involving neighborhood unions”, *Journal of Graph Theory*, Vol. **11**, No. 4 (1987), 555-564.
24. Erdős, P, Faudree, R., Gould, R., Jacobson, M.S. and Schelp, R.H., “Goodness of trees for generalized books”, *Graphs and Combinatorics* **3** (1987), 1-6.
25. Faudree, R., Jacobson, M.S., Ordman, E., Schelp, R. and Tuza, Zs., “Menger’s theorem and short paths”, *J. Comb. Math. Comp. Computing* **2** (1987), 235-253.

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26. Jacobson, M.S., Kinch, L. and Gyarfás, A., “A generalization of transitivity for digraphs”, *Discrete Mathematics* **69** (1988), 35-41.
27. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L., “On neighborhood closure of graphs”, *Coll. Math. Soc. Janos Bolyai* **52** (1988), 227-238.

28. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L., "On a problem of ascending subgraph decompositions", *Congressus Numerantium*, **65** (1988), 33-42.
29. Chartrand, G., Jacobson, M.S., Lehel, J., Oellerman, O. and Ruiz, S., "Irregularity strength of a network", *Congressus Numerantium* **64** (1988), 197-210.

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30. Jacobson, M.S. and Lehel, J., "Irregular networks, regular graphs, and integer matrices", *Discrete Mathematics*, **76** (1989), 223-240.
31. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L., "On a neighborhood condition implying the union of complete graphs", *European Journal of Combinatorics*, **10** (1989), 427-433.
32. Jacobson, M.S. and Peters, K., "Complexity questions concerning n-domination and related parameters", *Congressus Numerantium*, **68** (1989), 7-22.

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33. Faudree, R., Gould, R., Jacobson, M.S. and Schelp, R., "Neighborhood unions and Hamiltonian properties in graphs", *Journal of Combinatorial Theory B*, **46** (1990), 1-19.
34. Frost, B., Jacobson, M.S., Kabell, J. and McMorris, F., "Bipartite analogues of split graphs and related topics", *Ars Combinatoria*, **29** (1990), 283-288.
35. Burr, S. and Jacobson, M.S., "On inequalities involving vertex partition parameters of graphs", *Congressus Numerantium*, **70** (1990), 159-170.
36. Jacobson, M.S., Peters, K. and Rall, D., "On n-irredundance and n-domination", Twelfth British Combinatorial Conference (Norwich, 1989) *Ars Combinatoria*, **29B** (1990), 151-160.
37. Jacobson, M.S. and Peters, K., "Chordal graphs and upper irredundance, upper domination and independence", *Applied Discrete Mathematics*, **86**, (1990), 59-69.
38. Fink, J., Jacobson, M.S., Kinch, L. and Roberts, J., "The Bondage Number of a Graph", *Disc. Math.* **86** (1990), no. 1-3, 47-57.
39. Faudree, R., Gould, R., Jacobson, M.S. and Schelp, R., "Two-irregular graphs", in *Topics in Combinatorics*, Physica Verlag, Heidelberg, (1990), 239-248.
40. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L., "Lower bounds for lower Ramsey numbers", *Journal of Graph Theory*, vol. **14**, No. 6 (1990), 723-730.

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41. Erdős, P., Jacobson, M.S. and Lehel, J., "On the clique number of graphs realizing a given degree sequence", *Proceedings of the 1988 International Kalamazoo Graph Theory Conference*, (Y. Alavi, G. Chartrand, O.R. Oellerman and A.J. Schwenk, eds.) Wiley, (1991), 439-450.
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43. Jacobson, M.S. and McMorris, F. R., "Sum-tolerance proper graphs are sum-tolerance unit graphs", *J. Comb. Inf. Sys. Sci.*, Vol. **16**, Nos. 1-2 (1991), 25-28.
44. Jacobson, M.S., Truszczynski, M. and Tuza, Zs., "Decompositions of regular bipartite graphs", *Discrete Mathematics*, **89** (1991), 17-27.

45. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L., "Neighborhood unions and highly Hamiltonian graphs", *Ars Combinatoria*, **31** (1991), 139-148.
46. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L., "On generalized degrees, connectivity and Hamiltonian properties in graphs", *J.C.I.S.S.*, Vol. **16**, Nos. 1-2 (1991), 93-105.
47. Faudree, R., Jacobson, M.S., Kinch, L. and Lehel, J., "Irregularity strength for dense graphs", *Discrete Math.* **91** (1991), 45-59.
48. Cockayne, E., Jacobson, M.S. and Kinch, L., "Generalized edge chromatic number", *Recent Advances in Graph Theory*, ed. V.R. Kulli, (1991) Vishwa International Publications, 133-140.
49. Jacobson, M.S., Kubicka, E. and Kubicki, G., "Vertex Rotation Number for Tournaments", *Congressus Numerantium*, **82** (1991), 201-210.
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51. Jacobson, M.S., McMorris, F.R. and Scheinerman, E., "General results on tolerance intersection graphs", *Journal of Graph Theory*, vol. **15**, No. 6 (1991), 573-577.

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52. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L. and Lindqu coaster, T., "A Generalization of Dirac's Theorem for  $K_{1,3}$ -free graphs", *Per. Math. Hung.*, **24** (1992), 35-50.
53. Faudree, R., Gould, R., Jacobson, M.S. and Lindqu coaster, T., "On generalized degrees and independence number in  $K(1,m)$ -free graphs", *Discrete Math* **103** (1992), 17-24.
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56. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L., "Neighborhood unions and a generalization of Dirac's Theorem", *Discrete Math*, **105** (1992), 61-71.
57. Jacobson, M.S., "On the p-edge clique cover number of complete bipartite graphs", *SIAM J. Disc. Math*, Vol. **5**, No. 4 (1992), 539-544.
58. Jacobson, M.S. and Lehel, J., "The irregularity strength of uniform hypergraphs", *J. Combin. Math. Combin. Comp.*, **11** (1992), 161-172.
59. Chen, G., Gould, R., Jacobson, M.S., Schelp, R. and West, D., "A characterization of influence graphs of a prescribed graphs", *Vishwa International Journal of Graph Theory*, Vol. **1**, No. 1 (1992), 77-81.
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61. Jacobson, M.S., Monma, C. and West, D., "On the substar number of a graph", *J. of Disc. App. Math*, **44** (1993), 205-220.
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65. Harary, F., Jacobson, M.S., Kubicka, E and Kubicki, G. and O. Oellerman, "The Irregularity cost or Sum of a Graph", *Applied Mathematical Letters*, Vol. **6**, No. 3 (1993), 79-80.

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70. Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L., "Degree conditions and cycle extendability", *Discrete Math.*, **141** (1995), Nos. 1-3, 109-122.
71. Fricke, G., Hedetniemi, S.M., Hedetniemi, S.T. and Jacobson, M.S., "Combinatorial problems on chessboards: a brief survey", *Proceedings of the 6<sup>th</sup> Quadrennial Kalamazoo International Graph Theory with Applications to Algorithms and Computer Science Conference*, Wiley Interscience, (1995), (eds. T. Alavi and a. Schwenk), 507-528.
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75. Jacobson, M.S., Kézdy, A. and Seif, S., "The poset on connected induced subgraphs of a graph need not be Sperner", *Order* **12**, (1995), No. 3, 315-318.
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79. Jacobson, M.S., Kézdy, A., Kubicka, E., Kubicki, G., Lehel, J., Wang, C and West D., "The path spectrum of a graph", *Proceedings of the Twenty-Sixth Southeastern International conference on Combinatorics, Graph Theory and Computing (Boca Raton, FL, 1995)*, *Congressus Numerantium* **112** (1996), 49-63.

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81. Jacobson, M.S., Levin, G. and Schienerman, E., “On fractional Ramsey numbers”, *Discrete Math.* **176** (1997), Nos. 1-3, 159-175.
82. Chen, G. and Jacobson, M.S., “Degree sum conditions for Hamiltonicity on k-partite graphs”, *Graphs Combin.* **13** (1997), No. 4, 325-343.
83. Jacobson, M.S., Kézdy, A. and Lehel, J., “Recognizing intersection graphs of linear uniform hypergraphs”, *Graphs Combin.* **13** (1997), No. 4, 359-367.

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84. Chen, G., Jacobson, M.S., Kézdy, A. and Lehel, J., “Tough enough chordal graphs are Hamiltonian”, *Networks* **31** (1998), No. 1, 29-38.
85. Jacobson, M.S., Kézdy, A. and Lehel, J., “Recognizing triangle-free graphs with induced path-cycle double covers is NP-complete”, *Networks* **31** (1998), No. 1, 1-10.
86. Jacobson, M.S., Kézdy, A. and Lehel, J., “Scenic Graphs I: Traceable Graphs”, *Ars Combinatoria* **49** (1998), 79-96.
87. Gould, R., Jacobson, M.S. and Lehel, J., “On G-potential degree sequences”, *Eighth Quadrennial International Conference on Graph theory, Combinatorics and Algorithms*, Vol. **2**, (1998), 451-460.
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91. Gyarfás, A., Jacobson, M.S., Kézdy, A. and Lehel, J., “Odd cycles and  $\mathfrak{g}$ -cycles in hypergraphs”, *Janos Bolyai Mathematical Society, Paul Erdos and his Mathematics*, (1999), 96-98.
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95. Burr, S. A., Jacobson, M.S., Mihok, P. and Semanisin, G., "Generalized Ramsey Theory and Decomposable Properties of Graphs", *Discussiones Mathematicae - Graph Theory*, Vol. **19**, No. 2 (1999), 199-218.

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99. Chen, G., Faudree, R., Gould, R., Jacobson, M.S. and Lesniak, L. "Cycles in 2-factors of Balanced Bipartite Graphs", *Graphs and Combinatorics*, **16** (2000), 67-80.
100. Faudree, J., Faudree, R., Gould, R., Jacobson, M.S., and Lesniak, L., "On k-ordered graphs", *J. Graph Theory*, **35** (2000), no. 2, 69-82

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