BOOKS PUBLISHED

1. *Fundamentals of Domination in Graphs*, Marcel Dekker, Inc., New York, 1998 (with Stephen Hedetniemi and Peter Slater).

2. *Domination in Graphs: Advanced Topics*, Marcel Dekker, Inc., New York, 1998 (edited by Teresa Haynes, Stephen Hedetniemi and Peter Slater).

REFEREED PUBLICATIONS

1. Extremal 2-2-insensitive graphs, *Congr. Numer.* 67 (1988) 158-166 (with Robert C. Brigham and Ronald D. Dutton).

2. A Multi-layered G–network for massively parallel computation, *Frontiers 88: The IEEE Proceedings of the Second Symposium on the Frontiers of Massively Parallel Computation* (1988) 519-520 (with Ratan K. Guha).

3. Changing and unchanging of the graphical invariants: minimum and maximum degree, maximum clique size, node independence number, and edge independence number, *Congr. Numer.* 72 (1990) 239-252 (with Linda M. Lawson, Robert C. Brigham, and Ronald D. Dutton).

4. Changing and unchanging of the node covering number of a graph, *Congr. Numer.* 77 (1990) 157-162 (with Linda M. Lawson).

5. The G–network and its inherent fault tolerant properties, *Internat. J. Comput. Math.* 31 (1990) 167-175 (with Ratan K. Guha, Robert C. Brigham, and Ronald D. Dutton).

6. CARDD : Computer aided representative-graph determiner and drawer, *Congr. Numer.* 77 (1990) 163-168 (with Michael W. Powell and Linda M. Lawson).

7. On a graph transformation where nodes are replaced by complete subgraphs, *Congr. Numer.* 78 (1990) 99-107 (with Paul Schmidt).

8. Characterization of the caterpillars obtained from a unique animal, *J. Combin. Inform. System Sci.* 15 (1990) 247-255 (with Robert C. Brigham, Ronald D. Dutton, and Frank Harary).

9. Changing and unchanging the domination number of a graph, *J. Combin. Math. Combin. Comput.* 9 (1991) 57-63 (with Julie Carrington and Frank Harary).

10. Some remarks on k–insensitive graphs in network system design, an invited paper in *Sankhyā Ser. A* 54 (1992) 177-187 (with Ratan K. Guha).

11. The effects of graph modifications on edge independence and edge covering numbers, *J. Combin. Math. Combin. Comput.* 9 (1992) 56-72 (with Linda M. Lawson).

12. Observations regarding distance n graphs, *Congr. Numer.* 89 (1992) 55-64 (with James W. Boland and Linda M. Lawson).

13. E–graphs, a generalization of several network designs, an invited paper in *Bull. Inst. Combin. Appl.* 7 (1993) 39-46 (with Linda M. Lawson).

14. Extremal graphs domination insensitive to the removal of k edges, *Discrete Appl. Math.* 44 (1993) 295-304 (with Robert C. Brigham and Ronald D. Dutton).

15. Applications of E–graphs in network design, *Networks* 23 (1993) 473-479 (with Linda M. Lawson).

16. Node and edge clique cover numbers of E–graphs, *Congr. Numer.* 95 (1993) 173–178 (with Linda M. Lawson).

17. On the codomination number of a graph, *Proyecciones* 12 (1993) 149–153 (with Frank Harary and Martin Lewinter).

18. Domination from a distance, *Congr. Numer.* 103 (1994) 89–96 (with Linda M. Lawson and James W. Boland).

19. Invariants of E–graphs, *Internat. J. Comput. Math.* 54 No. 3, 4 (1994) (with Linda M. Lawson).

20. Conditional graph theory IV: Dominating sets, *Utilitas Math.* 48 (1995) 179–192 (with Frank Harary).

21. Paired-domination and the paired-domatic number, *Congr. Numer.* 109 (1995) 65–72 (with Peter J. Slater).

22. Nordhaus-Gaddum inequalities for domination in graphs, *Discrete Math.* 155 (1996) 99–105 (with Frank Harary).

23. On graphs having equal domination and codomination numbers, *Utilitas Math.* 50 (1996) 53–64 (with Robert C. Brigham, Ronald D. Dutton, and Frank Harary).

24. Domination in inflated graphs, *Congr. Numer.* 118 (1996) 143–154 (with Jean E. Dunbar).

25. A note on changing and unchanging the color cost of a graph, *Congr. Numer.* 119 (1996) 185–191 (with Frank Harary and Linda Lawson).

26. Domination in graphs: a brief overview, *J. Combin. Math. Combin. Comput.* 24 (1997) 225–237.

27. Independence, domination, and generalized maximum degree, *Congr. Numer.* 125 (1997) 145–152 (with Jean Dunbar, Lisa Markus, Gayla Domke, and Debra Knisley).

28. The domatic number of a graph and its complement, *Congr. Numer.* 126 (1997) 53–63 (with Jean E. Dunbar and Michael Henning).

29. The k-tuple domatic number of a graph, *Math. Slovaca* 48 (1998) 161–166 (with Frank Harary).

30. Efficient and excess domination in graphs, *J. Combin. Math. Combin. Comput.* 26 (1998) 83–96 (with Frank Harary and Peter J. Slater).

31. Generalized maximum degree and totally regular graphs, *Utilitas Math.* 54 (1998) 211-221 (with Debra Knisley).

32. Bondage, insensitivity and reinforcement, *Domination in Graphs : Advanced Topics*, Chapter 17, eds. Haynes, Hedetniemi, and Slater (1998) 471–489 (with Jean Dunbar, Erich Teschner, and Lutz Volkmann).

33. Paired-domination in graphs, *Networks* 32 (1998) 199–206 (with Peter Slater).

34. Domination critical graphs with respect to the relative complement, *Australas. J. Combin.* 18 (1998) 115–126 (with Michael Henning).

35. Total domination edge critical graphs, *Utilitas Math.* 54 (1998) 229–240 (with L.C. van der Merwe and C. M. Mynhardt).

36. Criticality index of total domination, *Congr. Numer.* 131 (1998) 67–73 (with L.C. van der Merwe and C. M. Mynhardt).

37. On perfect neighborhood sets in graphs, *Discrete Math.* 199 (1999) 221-225 (with Gerd Fricke, Sandra Hedetniemi, Stephen Hedetniemi, and Michael Henning).

38. Nordhaus-Gaddum type results for the domatic number of a graph, *Combinatorics, Graph Theory, and Algorithms*, John Wiley & Sons, Inc. Vol. 1 (1999) 303–312 (with Jean E. Dunbar and Michael Henning).

39. Independence, domination, and uniform maximum degree, to appear in *Combinatorics, Graph Theory, and Algorithms*, John Wiley & Sons, Inc. Vol. 1 (1999) 291–302 (with Jean Dunbar, Lisa Markus, Gayla Domke, and Debra Knisley).

40. 3-domination critical graphs with arbitrary independent domination numbers, *Bull. Inst. Combin. Appl.* 27 (1999) 85–88 (with Lucas van der Merwe and C.M. Mynhardt).

41. Extremal domination insensitive graphs, *J. Combin. Math. Combin. Comput.* 31 (1999) 113–127.

42. Realizability of (j, t)-critical graphs for sets of values, *Congr. Numer.* 137 (1999) 65–75 (with Ben Phillips and Peter Slater).

43. Extremal graphs for inequalities involving domination parameters, *Discrete Math.* 216 (2000) 1–10 (with Xu Baogen, Ernie Cockayne, Stephen Hedetniemi, and Zhou Shangchao).

44. Double domination in graphs, *Ars Combin.* 55 (2000) 201–213 (with Frank Harary).

45. The domatic numbers of factors of a graph, *Ars Combin.* 56 (2000) 161–173 (with Michael Henning).

46. Path-free domination, *J. Combin. Math. Combin. Comput.* 33 (2000) 9–21 (with Michael Henning).

47. Stratified claw domination in prisms, *J. Combin. Math. Combin. Comput.* 33 (2000) 81–96 (with Gary Chartrand, Michael Henning, and Ping Zhang).

48. Distance-k independent domination sequences , *J. Combin. Math. Combin. Comput.* 33 (2000) 225–237(with Odile Favaron and Peter Slater).

49. The codomatic number of a cubic graph, *J. Combin. Math. Combin. Comput.* 32 (2000) 139–147 (with Jean E. Dunbar and Michael Henning).

50. A generalization of domination critical graphs, *Utilitas Math.* 58 (2000) 129–144 (with Ben Phillips and Peter Slater).

51. Induced-paired domination in graphs, *Ars Combin.* 57 (2000) 111–128 (with Linda Lawson and Dan Studer).

52. A characterization of domination 4-relative-critical graphs of diameter 5, *Australas. J. Combin.* 22 (2000) 19–36 (with Michael Henning).

53. Domination and independence subdivision numbers of graphs, *Discussiones Math. Graph Theory.* 20 (2000) 271–280 (with Sandra Hedetniemi and Stephen Hedetniemi).

54. Domination and total domination critical trees with respect to relative complements, *Ars Combin.* 59 (2001) 117–127 (with Michael Henning and Lucas van der Merwe).

55. Strong equality of upper domination and independence in trees, *Utilitas Math.* 59 (2001) 111–124 (with Michael Henning and Peter Slater).

56. Generalized maximum degree, *Utilitas Math.* 59 (2001) 155–165 (with Lisa Markus).

57. Stable and unstable graphs with total irredundance number zero, *Ars Combin.* 61 (2001) 33–46 (with Michael Henning, Stephen Hedetniemi, and Debra Knisley).

58. Total domination edge critical graphs with maximum diameter, *Discussiones Math. Graph Theory.* 21 (2001) 187–205 (with Lucas van der Merwe and C.M. Mynhardt).

59. Domination subdivision numbers, *Discussiones Math. Graph Theory.* 21 (2001) 239–253 (with Sandra Hedetniemi, Stephen Hedetniemi, David Jacobs, James Knisely, and Lucas van der Merwe).

60. Paired-domination in grid graphs, *Congr. Numer.* 150 (2001) 161–172 (with Kenneth Proffitt and Peter Slater).

61. Trees with equal domination and tree-free domination numbers, *Discrete Math.* 242 (2002) 93–102 (with Michael Henning).

62. Excellent trees, *Bull. Inst. Combin. Appl.* 34 (2002) 27–38 (with Gerd Fricke, Sandra Hedetniemi, Stephen Hedetniemi, and Renu Laskar).

63. A characterization of i-excellent trees, *Discrete Math.* 248 (2002) 69–77 (with Michael Henning).

64. Total domination critical graphs with respect to relative complements, *Ars Combin.* 64 (2002) 169–179 (with Michael Henning and Lucas van der Merwe).

65. Trees with unique minimum total dominating sets, *Discussiones Math. Graph Theory.* 22 (2002) 233–246 (with Michael Henning).

66. Total irredundance in graphs, *Discrete Math.* 256 (2002) 115–127 (with Odile Favaron, Stephen Hedetniemi, Michael Henning, and Debra Knisley).

67. Total domination supercritical graphs with respect to relative complements, *Discrete Math.* 258 (2002) 361–371 (with Michael Henning and Lucas van der Merwe).

68. Total domination good vertices in graphs, 26 (2002) 305–315 *Australas. J. Combin.* (with Michael Henning).

69. Domination goodness index, *Congr. Numer.* 156 (2002) 171–179 (with Genie Jackson).

70. Domination in graphs applied to electrical power networks, *SIAM J. Discrete Math.* 15(4) (2002) 519–529 (with Sandra Hedetniemi, Stephen Hedetniemi, and Michael Henning).

71. Global defensive alliances, *Proc. 17th Internat. Symp. Comput. Inform. Sci.*, I. Cicekli, N.K. Cicekli and E. Gelenbe, Eds., ISCIS XVII, October 28-30, 2002, Orlando, FL, USA, CRC Press, pp. 298-302. (with Stephen Hedetniemi and Michael Henning).

72. Total domination subdivision numbers, *J. Combin. Math. Combin. Comput.* 44 (2003) 115–128 (with Stephen Hedetniemi and Lucas van der Merwe).

73. Total domination edge critical graphs with minimum diameter, *Ars Combin.* 66 (2003) 79–96 (with Lucas van der Merwe and C.M. Mynhardt).

74. Strong equality of domination parameters in trees, *Discrete Math.* 260 (2003) 77–87 (with Michael Henning and Peter Slater).

75. H-forming sets in graphs, *Discrete Math.* 262 (2003) 159–169 (with Stephen Hedetniemi, Michael Henning, and Peter Slater).

76. A note on defensive alliances, *Bull. Inst. Combin. Appl.* 38 (2003) 37–41 (with Fricke, Lawson, Hedetniemi, and Hedetniemi).

77. Changing and unchanging domination : a classification, *Discrete Math.* 272 (2003) 65–79.

78. Stratification and domination in graphs, *Discrete Math.* 272 (2003) 171–185 (with Gary Chartrand, Michael Henning, and Ping Zhang).

79. Domination good vertices in graphs, *Utilitas Math.* 64 (2003) (with Genie Jackson).

80. Domination in graphs, Book Chapter, *Handbook of Discrete Mathematics* editors: Gross and Yellen.

81. Global defensive alliances in graphs, to appear in *Electronic J. Combinatorics* (with Henning and Hedetniemi).

82. Domination subdivision numbers in graphs, to appear in *Utilitas Math.* (with Odile Favaron and Stephen Hedetniemi).

83. On Nordhaus-Gaddum bounds for domination in graphs with specified minimum degree, to appear in *Utilitas Math.* (with Jean Dunbar and Stephen Hedetniemi).

84. Realizability of the total domination criticality index, to appear in *Utilitas Math.* (with C.M. Mynhardt and Lucas van der Merwe).

85. On paired and double domination in graphs, to appear in *Utilitas Math.* (with Mustapha Chellali).

86. Hereditary domination & independence parameters, to appear in *Discussiones Math. Graph Theory* (with Wayne Goddard and Debra Knisley).

87. Trees with unique minimum paired dominating sets, to appear in *Ars Combin.* (with Mustapha Chellali).

88. Hamiltonian domination, to appear in *Utilitas Math.* (with Gary Chartrand, Michael Henning, and Ping Zhang).

89. Total domination subdivision numbers of graphs, to appear in *Discussiones Math. Graph Theory* (with Michael Henning and Lora Hopkins).

90. Geodetic achievement and avoidance games for graphs, to appear in *Quaestiones Mathematicae* (with Michael Henning and Charlotte Tiller).

SUBMITTED FOR PUBLICATION

1. Detour domination, submitted to *Ars Combin.* (with Gary Chartrand, Michael Henning, and Ping Zhang).

2. Characterizations of trees with equal paired and double domination numbers, submitted to *J. Graph Theory*(with Blidia and Chellali), via email 2/27/02, home: tree4.tex; submitted to *Discrete Math.* online submission 4/30/02, tree4.ps.

3. Total domination vertex critical graphs, submitted to *Discrete Math.* (with Wayne Goddard, Michael Henning, and Lucas van der Merwe). Has been revised. Mike submitted. vcrit13.pdf

4. Broadcasts in graphs, submitted to *Discrete Applied Math.* (with Jean Dunbar, David Erwin, Sandra Hedetniemi, and Stephen Hedetniemi). broadom.tex 6/12/02 Jean submitted.

5. A characterization of trees with equal domination and global strong alliance numbers, submitted to *Utilitas Math.* (with Hedetniemi and Henning) Mike submitted August, 2002.

6. Bicritical domination, submitted to *Discrete Math.* (with Brigham, Henning, and Rall). I submitted online 4/24/03. Stored at ETSU and Home as bicritical.tex.

7. Power domination, submitted to *Discrete Applied Math.* (with David Atkins and Michael Henning). Mike submitted to SIAM J. Discrete Math. Rejected. Resubmitted to DAM.

8. Independent and double domination in graphs, submitted to *Utilitas Math.* (with Blidia, Chellali, Henning). revised 11/25/03 newdtree11.tex home.

9. Total domination subdivision numbers in trees, submited to *Discrete Math.* (with Michael Henning). Mike submitted online 5/1/03.

10. Locating and differentiating total domination, submitted to (with Henning and Howard).