

# The 20th Century Publications

of Edgar G. Goodaire

## 1 Books and parts thereof

1. Moufang loops of order less than 64, with Sean May and Maitreyi Raman, Nova Science, New York, 1999
2. Discrete Mathematics with Graph Theory, with M. M. Parmenter, Prentice-Hall (New Jersey), 1998
3. Alternative loop rings, with Eric Jespers and César Polcino Milies, North-Holland Mathematics Studies **184**, Elsevier, Amsterdam, 1996, xvi+387 pp; MR 98e:17041.
4. Systems with two binary operations and their planes, Chapter VII of “Quasigroups and Loops: Theory and Applications”, with M. J. Kallaher, Sigma Series in Pure Mathematics, Vol. 8, Heldermann Verlag Berlin (1990) MR 93g:20133

## 2 Refereed Journal Articles

1. Alternative rings of small order, with Yongxin Zhou, *Comm. Algebra* **28** (2000), no. 7, 3335–3349; MR 2001f:17067.
2. Nilpotent right alternative rings and Bol circle loops, *Comm. Algebra* **28** (2000), no. 5, 2445–2459; MR 2001c:17048.
3. Alternative rings of small order and the hunt for Moufang circle loops, *Nonassociative Algebra and its Applications*, Lecture Notes in Pure and App. Math., no. 211, Marcel Dekker, April 2000, 137–146; MR 2001b:17043.
4. More on the unit loop of an alternative loop ring, with C. Polcino Milies, *C. R. Math. Rep. Acad. Sci. Canada* **22** (2000), no. 1, 28–32; MR 2000j:20130.
5. Cayley-Dickson algebras and RA loops, with Yongxin Zhou, *Comm. Algebra* **28** (2000), no. 1, 505–522; MR 2001i:17042.
6. A brief history of loop rings, *Mat. Contemp* **16** (1999), 93–109; MR 2001i:17044.
7. Nilpotent Moufang unit loops, with C. Polcino Milies, *J. Algebra* **190** (1997), 88–99; MR 98c:20119.
8. Central idempotents in alternative loop algebras, with C. Polcino Milies, *Nova J. Math. Game Theory Algebra*, **5** (1996), no. 3, 207–214; MR 98i:17043.
9. The torsion product property in alternative algebras, with C. Polcino Milies, *J. Algebra* **184** (1996), 58–70; MR 97g:17032.

10. A construction of loops which admit right alternative loop rings, with D. A. Robinson, *Resultate Math.* **29** (1996), 56–62; MR 97b:20100.
11. Finite subloops of units in an alternative loop ring, with C. Polcino Milies, *Proc. Amer. Math. Soc.*, **124** (1996), no. 4, 995–1002; MR 96i:17031.
12. Finite conjugacy in alternative loop algebras, with C. Polcino Milies, *Comm. Algebra* **24** (1996), no. 3, 881–889; MR 97c:17047.
13. The radical of a modular alternative loop algebra, *Proc. Amer. Math. Soc.* **123** (1995), no. 11, 3289–3299; MR 96a:17026.
14. Finite conjugacy and nilpotency in loops of units, with César Polcino Milies, *C. R. Acad. Sci. Canada* **XVII** (1995), no. 5, 201–206.
15. Ring alternative loops and their loop rings, with César Polcino Milies, *Resenhas - IMEUSP* **2** (1995), no. 1, 47–82; MR 96k:20148.
16. Units in alternative loop rings and the conjectures of H. J. Zassenhaus, with César Polcino Milies, *Atas da XIII Escola de Algebra*, 1994, IMECC, Unicamp, Campinas (1995), 193–200.
17. On the loop of units of an alternative loop ring, with C. Polcino Milies, *Nova J. Algebra Geom.*, **3** (1995), no. 3, 199–208; MR 96g:17037.
18. Semi-direct products and Bol loops, with D. A. Robinson, *Demonstratio Math.*, **XXVII** (1994), no. 3–4, 573–588; MR 96a:20094.
19. On a conjecture of Zassenhaus in an alternative setting, with C. Polcino Milies, *C. R. Acad. Sci. Canada* **XVI** (1994), nos. 2–3, 75–78; MR 95d:17034.
20. A class of loops with right alternative loop rings, with D. A. Robinson, *Comm. Algebra* **22** (1994), no. 14, 5623–5634; MR 95h:20087.
21. Six Moufang loops of units, *Canad. J. Math.* **44** (1992), no. 5, 951–973; MR 93k:20101.
22. Groups embeddable in alternative loop rings, *Contributions to General Algebra 7 Vienna* (1991), 169–176; MR 92h:00022.
23. Determining units in some integral group rings, with E. Jespers and M. M. Parmenter, *Canad. Math. Bull.* **33** (1990), no. 2, 242–246; MR 92a:16040.
24. Code loops are RA2 loops, with Orin Chein, *J. Algebra* **130** (1990), no. 2, 385–387; MR 91g:20101.
25. Loops whose loop rings in characteristic 2 are alternative, with Orin Chein, *Comm. Algebra* **18** (1990), no. 3, 659–688; MR 91g:20099.

26. Moufang loops with a unique non-identity commutator (associator, square), with Orin Chein, *J. Algebra* **130** (1990), no. 2, 369–384; MR 91g:20100.
27. Some special conjugacy closed loops, with D. A. Robinson, *Canad. Math. Bull.* **33** (1) (1990), 73–78; MR 91a:20077.
28. Torsion units in alternative loop rings, with César Polcino Milies, *Proc. Amer. Math. Soc.* **107** (1989), 7–15; MR 89m:20084.
29. Aneis de loop alternativos, with César Polcino Milies, *Atas do 16 Coloquio Brasileiro de Matemática IMPA*, Rio de Janeiro (1988), 16–32.
30. Is a right alternative loop ring alternative?, with Orin Chein, *Algebras, Groups, Geom.* **5** (1988), 297–304; MR 90b:17043.
31. Isomorphisms of integral alternative loop rings, with César Polcino Milies, *Rend. Circ. Mat. Palermo* **37** (1988), 126–135; MR 90b:20058.
32. Moufang loops with limited commutativity and one commutator, with Orin Chein, *Arch. Math. (Basel)* **51** (1988), 92–96; MR 89i:20110.
33. Circle loops of radical alternative rings, *Algebras, Groups, Geom.* **4** (1987), 461–474; MR 89e:17028.
34. Isomorphisms and units in alternative loop rings, with César Polcino Milies, *C.R. Math. Rep. Acad. Sci. Canada* **IX** (5) (1987), 259–263; MR 88m:20130.
35. Semi-simplicity of alternative loop rings, with M. M. Parmenter, *Acta Math. Hung.* **50** (3–4) (1987), 241–247; MR 89e:20119.
36. Units in alternative loop rings, with M. M. Parmenter, *Israel J. of Math.* **53** (2) (1986), 209–216; MR 87k:17028.
37. Extensions of certain group ring properties to alternative loop rings, with M. M. Parmenter, *C.R. Math. Rep. Acad. Sci. Canada* **VIII** (2) (1986), 131–134; MR 87d:16055.
38. Loops whose loop rings are alternative, with Orin Chein, *Comm. Algebra* **14** (1986), no. 2, 293–310; MR 87c:20116.
39. Isomorphism of loops which have alternative loop rings, with Orin Chein, *Comm. Algebra* **13** (1985), no. 1, 1–20; MR 86a:20087.
40. Alternative loop rings, *Pub. Math. Debrecen* **30** (1983), 31–38; MR 85k:20200.
41. Loops which are cyclic extensions of their nuclei, with D. A. Robinson, *Compositio Math.* **45** (1982), 341–356; MR 83g:20079.
42. A class of loops which are isomorphic to all loop isotopes, with D. A. Robinson, *Canad. J. Math.* **34** (1982), 662–672; MR 83k:20079.

43. The centralizer of a Cartan subalgebra of a Jordan algebra, *Trans. Amer. Math. Soc.* **235** (1978), 315–322; MR 57 (1979) #378.
44. A classification of Jordan bimodules by weights, *Comm. Algebra* **6** (1978), 887–910; MR 57 (1979) #9779.
45. Algebras with a diagonalizable subspace whose centralizer satisfies a polynomial identity, *Canad. J. Math.* **29** (1977), 277–283; MR 55 (1978) #2986.
46. The derivations of  $M_n(C)$ , *Comm. Algebra* **3** (1975), 21–36; MR 51 (1976) #10416.
47. The derivation algebra of  $M_4^8(C)$ , with R. C. Snell, *Canad. Math. Bull.* **17** (1974), 375–378; MR 51 (1976) #8193.
48. Irreducible representations of algebras, *Canad. J. Math.* **26** (1974), 1118–1129; MR 50 (1975) #2256.
49. Weighted representations of a primitive algebra, *Proc. Amer. Math. Soc.* **42** (1974), 61–66; MR 48 (1974) #4043.