Publication List

Donald L. Kreher

Publications

1. E.S. Kramer, D.L. Kreher, S.S. Magliveras and D.M. Mesner, Coherent Room Rectangles from Permutation Groups, *Ars Combinatoria* **9** (1980), 101-111.

2. E.S. Kramer, D.L. Kreher, S.S. Magliveras and D.M. Mesner, An Assortment of Room-Type Designs, *Ars Combinatoria* **11** (1981), 9-29.

3. E.S. Kramer, D.L. Kreher and D.M. Mesner, Some Crowded Room Rectangles, *Ars Combinatoria* **11** (1982), 71-85

4. L.G. Chouinard, D.L. Kreher and E.S. Kramer, Graphical t-wise Balanced Designs, *Discrete Mathematics* **46** (1983), 227-240.

5. D.L. Kreher, An Incidence Algebra for Combinatorial Designs with Automorphisms, *Journal of Combinatorial Theory Series A* Vol. 42, No 2. July 1986 239-251.

6. D.L. Kreher and S. P. Radziszowski, Finding Simple t-Designs by Using Basis Reduction, *Congressus Numerantium* Proceedings of the 17-th Southeastern Conference on Combinatorics, Graph Theory and Computing **55** (1986), 235-244.

7. D.L. Kreher and S. P. Radziszowski, The Existence of Simple 6-(14,7,4) Designs *Journal of Combinatorial Theory Series A* **43** , No. 2 (1986), 237-243.

8. D.L. Kreher and S. P. Radziszowski, Search Algorithm for Ramsey Graphs by Union of Group Orbits, *Journal of Graph Theory* **12** No. 1 (1987), 59-72.

9. D.L. Kreher and S. P. Radziszowski, Simple 5-(28,6,λ) Designs from $PSL_2(27)$, *Annals of Discrete Mathematics* 34, special volume on Combinatorial Design Theory dedicated to Alexander Rosa (edited by C.J. Colbourn and R.A. Mathon), North-Holland Mathematics Studies **149** (1987), 315-318.

10. D.L. Kreher and S. P. Radziszowski, New t-Designs Found by Using Basis Reduction, *Congressus Numerantium* **59** (1987), 155-164.

11. D.L. Kreher, A Generalization of Connors Inequality, *Journal of Combinatorial Theory Series A* **50** (1989), 259-268.

12. D.L. Kreher and S. P. Radziszowski, Solving Subset-Sum Problems with the L^3 Algorithm, *Journal of Combinatorial Mathematics and Combinatorial Computing* **3** (1988), 49-63.

13. D.L. Kreher and S. P. Radziszowski, On (3,k) Ramsey Graphs: Theoretical and Computational Results, *Journal of Combinatorial Mathematics and Combinatorial Computing* **4** (1988), 37-52.

14. D.L. Kreher and S. P. Radziszowski, Upper Bounds for Some Ramsey Numbers R(3,k), *Journal of Combinatorial Mathematics and Combinatorial Computing* **4** (1988), 207-212.

15. D.L. Kreher and S. P. Radziszowski and W. Li, Lower bounds for Multi-color Ramsey Numbers From Group Orbits, *Journal of Combinatorial Mathematics and Combinatorial Computing* **4** (1988), 87-96.

16. D. de Caen, D.L. Kreher and J. Wiseman, On Constructive Upper Bounds for the Turán numbers $T(n, 2r+1, 2r)$, *Congressus Numerantium* **65** (1988), 277-280

17. P. Horak, D.L. Kreher and A. Rosa, Jointly Extendible Latin Rectangles, *Utilitas Mathematica* **36** (1989) 193-195.

18. D.L. Kreher, E.S. Kramer, R.Rees and D.R. Stinson, On perpendicular arrays with $t \geq 3$2s, *Ars Combinatoria* **28** (1989) 215-223.

19. D. de Caen, D. A. Gregory and I.G. Hughes and D.L.Kreher, Near-factors of Finite Groups, *Ars Combinatoria* **29** (1990) 53-63.

20. D.L. Kreher and S.P. Radziszowski, Constructing 6-(14,7,4) Designs, *Contemporary Mathematics* **111** (1990), 137-151.

21. Y. M. Chee, C. J. Colbourn and D.L. Kreher, Simple t-Designs with $v \leq 30$, *Ars Combinatoria* **29** (1990) 193-258.

22. D.L. Kreher, A 4-(15,5,5) design, in *Coding Theory and Design Theory: Part II Design Theory*, ed. Dijen Ray-Chaudhuri, *The IMA Volumes in Mathematics and its Applications* **21** (1990) 226.

23. D.L. Kreher, Design Theory Toolchest - User Manual and Report, in *Coding Theory and Design Theory: Part II Design Theory*, ed. Dijen Ray-Chaudhuri, *The IMA Volumes in Mathematics and its Applications* **21** (1990) 227-235.

24. Yeow Meng Chee, Charles J. Colbourn, Steven C. Furino and D.L. Kreher, Large Sets of Disjoint t-Designs, *The Australasian Journal of Combinatorics* **2** (1990) 111-119.

25. D. de Caen, D.L. Kreher and J. A. Wiseman, A Turán Problem for Cartesian Products of Hypergraphs, *The Journal of Combinatorial Mathematics and Combinatorial Computing* **8** (1990) 17-25.

26. D.L. Kreher, Y. M. Chee, D. de Caen, C.J. Colbourn and E.S. Kramer, Some New Simple t-Designs, *The Journal of Combinatorial Mathematics and Combinatorial Computing* **7** (1990) 53-90.

27. D. de Caen, D.L. Kreher, W.H. Mills, and S.P. Radziszowski, On the covering of t-sets with $(t+1)$-sets: $C(9,5,4)$ and $C(10,6,5)$, *Discrete Mathematics* **92** (1991) p65-77

28. D.L. Kreher and S.P. Radziszowski, Minimum Triangle-Free Graphs, *Ars Combinatorica* **31** (1991) 65-92.

29. D. de Caen and D.L. Kreher, The 3-hypergraphical Steiner quadruple systems of order twenty, in *Graphs, Matrices and Designs*, Ed. Rolf Rees, *Lecture Notes in Pure and Applied Mathematics* **139** (1992) 85-92.

30. T. Frenz and D.L. Kreher, Enumerating Cyclic Steiner Systems, *in The Journal of Combinatorial Mathematics and Combinatorial Computing* **11** (1992) 23-32.

31. E.D. Billington and D.L. Kreher, Yet another characterization of the Petersen Graph, *Bulletin of the Institute of Combinatorics and its Applications* **7** (1993) 73-77.

32. D.L. Kreher, D. de Caen, S.A. Hobart, E.S. Kramer and S. P. Radziszowski, The Parameters 4-(12,6,6) and Related t-Designs, *The Australasian Journal of Combinatorics* **7** (1993) 3-20.

33. D.L. Kreher, An infinite family of (simple) 6-designs, *The Journal of Combinatorial Designs* **1** No. 4 (1993) 277-280.

34. Yeow Meng Chee and D.L. Kreher, Simple 4-(21,5, λ) Designs from the Frobenius Group of Order 171, *Ars Combinatoria* **36** (1993) 199-205.

35. D.G. Hoffman and D.L. Kreher, The Bigraphical t-Wise Balanced Designs of Index One, *The Journal of Combinatorial Designs* **2** (1994) 41-48.

36. E.D. Boyer, D.L. Kreher, A. Sidorenko and S.P. Radziszowski, On T(n,5,3)-Turán Systems, *Ars Combinatoria* **37**, (1994) 1-19.

37. D.L. Kreher, t-Designs With Large t: A Survey, *The Journal of Combinatorial Mathematics and Combinatorial Computing* **15** (1994), 97-110.

38. C.A. Cusack, D.L. Kreher and S.W. Graham, Large sets of 3-designs from PSL(2,q), with block sizes 4 and 5, *The Journal of Combinatorial Designs* **3** (1995), 147-160.

39. C.J. Colbourn, C.A. Cusack and D.L. Kreher, Partial Steiner Triple Systems with Equal-Sized Holes, *The Journal of combinatorial Theory Series A*, **70** (1995), 56-65.

40. L.M. Weiss and D.L. Kreher, The Bigraphical t-Wise Balanced Designs of Index Two, *The Journal of Combinatorial Designs*, **3** (1995), 233-255.

41. E.D. Billington and D.L. Kreher, The intersection problem for small G-designs, *The Australasian Journal of Combinatorics*, **12** (1995), 239-258.

42. D.L. Kreher, Orthogonal arrays of strength 3, *the Journal of Combinatorial Designs*, **4** (1995).

43. D.L. Kreher, t-Designs, $t \geq 3$, *The CRC handbook of combinatorial designs*, C.J. Colbourn and J.H. Dinitz (Editors), CRC Press, Boca Raton, 1996.

44. M. Gilpin and D.L. Kreher, A note on spanning trees in near d-angulations. *Ars Combinatoria*, **41** (1995), 189-192.

45. C.J. Colbourn and D.L. Kreher, Concerning difference matrices, *Designs, Codes and Cryptography*, **9**, 67-70 (1996).

46. D.L. Kreher, G.F. Royle and W.D. Wallis, A Family of Resolvable Regular Graph Designs, *Discrete Mathematics*, **156**, 269-275 (1996).

47. E.S. Kramer, D.L. Kreher and R. Mathon, On Steiner 3–wise balanced designs of order 17, *Journal of Combinatorial Designs*, **5** 125-145, (1997).

48. D.L. Kreher and D.R. Stinson, Small group divisible designs with block size four, *Journal of Statistical Planning and Inference*, **58** 111-118, (1997).

49. D.L. Kreher, D.R. Stinson and L. Zhu, On the maximum number of fixed points in automorphisms of 2-$(v, k, 1)$ designs, *Annals of Combinatorics*, **1** (1997) 227-243.

50. M.A. Chateauneuf, C.J. Colbourn and D.L.Kreher, Covering arrays of strength 3, *Designs Codes and Cryptography*, **16**, 235-242 (1999).

51. L. Burgess, D.L. Kreher and D.Street, Small orthogonal main effect plans with four factors, *Communications in Statistics*, **28**, Issue 10, 1999.

Publications in Press

1. C.L. Olsen and D.L. Kreher, Steiner graphical t-wise balanced designs of type n^r , *Statistical Planning and Inference*, to appear.
2. M.A. Chateauneuf, C.J. Colbourn, D.L. Kreher, E.S. Lamkin and D.C. Torney, Pooling, Lattice Square, and Union Jack Designs, *Annals of Combinatorics*, to appear.
3. C.J. Colbourn and D. L.Kreher, J. P. McSorley, and D.R. Stinson, Orthogonal Arrays of Strength 3 from 3–designs *Journal of Statistical Planning and Inference*, to appear.

Books

1. D.L. Kreher and D.R. Stinson, *Combinatorial Algorithms: Generation, Enumeration and Search*, CRC press LTC, Boca Raton, Florida, 1998.