

## Publications

### Books

1. *Factorial Designs* (with W. T. Federer and B. L. Raktoc), Wiley, 1981.
2. *Design and Inference in Finite Population Sampling* (with B. K. Sinha), Wiley, 1991.
3. *Orthogonal Arrays-Theory and Applications* (with N. J. A. Sloane and J. Stufken), Springer-Verlag, 1999.

### Articles

4. “An application of group theory to the existence and non-existence of orthogonal Latin squares” (with W. T. Federer), *Biometrika* **56** (1969), 547–551.
5. “F-square and orthogonal F-square designs: A generalization of Latin square and orthogonal Latin square designs” (with E. Seiden), *Annals of Mathematical Statistics* **41** (1970), 2035–2044.
6. “The existence and construction of two families of designs for two successive experiments” (with E. T. Parker and W. T. Federer), *Biometrika* **57** (1970), 351–355.
7. “An easy method of constructing partially replicated Latin square designs of order  $n$  for all  $n > 2$ ” (with W. T. Federer), *Biometrics* **26** (1970), 327–330.
8. “On the equivalence of Mann’s group automorphism method of constructing an  $O(n, n - 1)$  set and Raktoc’s collineation of constructing a balanced set of 1-restrictional prime powered lattice designs” (with W. T. Federer), *Annals of Mathematical Statistics* **41** (1970), 1530–1540.
9. “Some techniques for constructing sets of mutually orthogonal Latin squares” (with W. T. Federer, E. T. Parker, B. L. Raktoc, E. Seiden and R. J. Turyn), in *Proceedings of the Fifteenth Conference on Design of Experiments in Army Research Development and Testing, ARO-D Report*, 1970, 673–796.
10. “On a method of sum composition of orthogonal Latin squares” (with E. Seiden), in *Proceedings of the International Conference on Combinatorial Geometry with Its Applications*, Prugia, Italy, 1970, 239–256.
11. “Independent step-wise residuals for testing homoscedasticity” (with D. S. Robson), *Journal of the American Statistical Association* **65** (1970), 1573–1581.
12. “Book Review: An introduction to Finite Projective Planes , by A.A. Albert and R. Sandler,” *Biometrics* **26** (1970), 162-163.
13. “Book Review: Basic Concepts of Probability and Statistics , 2nd edition, by J.L. Hodges, Jr. and E.L. Lehman,” *Biometrics* **26** (1970), 589-590.

14. "Book Review: Experimental Design: Procedures for the Behavioral Sciences , by Roger and E. Kirk," *Biometrics* **26** (1970), 590-593.
15. "Book Review: Survey of Applicable Mathematics , by K. Rektorys," *Biometrics* **26** (1970), 594-596.
16. "Book Review: Patterns and Configurations in Finite Spaces, and The Mathematics of Experimental Design , by S. Vajda (combined review)," *Annals of Mathematical Statistics* **41** (1970), 1780-1782.
17. "Experimental designs and combinatorial systems associated with Latin squares and sets of mutually orthogonal Latin squares" (with S. S. Shrikhande), *Sankhya, Series A* **33** (1971), 423-432.
18. "A set of three mutually orthogonal Latin squares of order 15," *Technometrics* **13** (1971), 696-698.
19. "On embedding and enumeration of orthogonal Latin squares" (with W. T. Federer), *Annals of Mathematical Statistics* **42** (1971), 509-516.
20. "Book Review: Sequences, Combinations, Limits , by S. I. Gelfand and others," *Biometrics* **27** (1971), 237-238.
21. "An algebraic property of the totally symmetric loops associated with Kirkman-Steiner triple systems," *Pacific Journal of Mathematics* **40** (1972), 305-309.
22. "Some families of designs for multi-stage experiments: Mutually balanced Youden designs when the number of treatments is prime power or twin primes, I." (with W. T. Federer and E. Seiden), *Annals of Mathematical Statistics* **43** (1972), 1517-1527.
23. "Book Review: Preservation of Infinite Divisibility under Mixing and Related Topics , by R.W. Stentil," *Biometrics* **28** (1972), 643-644.
24. "Self-orthogonal Latin square designs and their importance," *Biometrics* **29** (1973), 393-396.
25. "An application of sum composition: A self-orthogonal Latin square of order ten," *Journal of Combinatorial Theory, Series A* **14** (1973), 256-260.
26. "Resistant and susceptible BIB designs" (with P. W. M. John), *Annals of Statistics* **1** (1974), 148-158.
27. "On a measure of aliasing due to fitting an incomplete model" (with W. T. Federer and B. L. Raktoe), *Annals of Statistics* **2** (1974), 650-660.
28. "Pairwise and variance balanced incomplete block designs" (with W. T. Federer), *Annals of the Institute of Statistical Mathematics* **26** (1974), 331-338.

29. “On the theory of connected designs: Characterization and optimality” (with J. Eccleston), *Annals of Statistics* **2** (1974), 1238–1255.
30. “On the theory and application of sum composition of Latin squares and orthogonal Latin squares” (with E. Seiden), *Pacific Journal of Mathematics* **54** (1974), 85–113.
31. “On the non-existence of Knut Vik designs for all even orders” (with W. T. Federer), *Annals of Statistics* **3** (1975), 445–447.
32. “Three-way BIB designs” (with D. Raghavarao), *Journal of Combinatorial Theory, Series A* **18** (1975), 207–209.
33. “Further contributions to the theory of F-squares design” (with D. Raghavarao and E. Seiden), *Annals of Statistics* **3** (1975), 712–716.
34. “Some contributions to the theory of multi-stage Youden designs” (with K. Afsarinejad), *Annals of Statistics* **3** (1975), 707–711.
35. “Self-orthogonal Latin square designs and their importance, II,” *Biometrics* **31** (1975), 755–759.
36. “Minimal unbiased designs for linear parametric functions” (with W. T. Federer and B. L. Raktoe), in *A Survey of Statistical Design and Linear Models*, J. N. Srivastava, ed., North-Holland, Amsterdam, 1975, 145–153.
37. “Repeated measurements designs, I.” (with K. Afsarinejad), in *A Survey of Statistical Design and Linear Models*, J. N. Srivastava, ed., North-Holland, Amsterdam, 1975, 229–240.
38. “An application of statistical design theory to crop estimation with special reference to legumes and mixture of cultivars” (with W. T. Federer, C. C. Lowe and D. Raghavarao), *Agronomy Journal* **68** (1976), 914–919.
39. “Optimal designs for two noninteractive treatments” (with R. A. Bradley), *Technometrics* **19** (1977), 52–57.
40. “A complete solution to the existence and nonexistence of Knut Vik designs and orthogonal Knut Vik designs,” *Journal of Combinatorial Theory, Series A* **22** (1977), 331–337.
41. “Examination and analysis of residuals: A test for detecting a monotonic relation between mean and variance in regression through the origin” (with B. L. Raktoe and P. P. Talwar), *Communications in Statistics, Series A—Theory and Methods* **6** (1977), 497–506.
42. “On theory and applications of BIB designs with repeated blocks” (with W. Foody), *Annals of Statistics* **5** (1977), 932–935, Corridendum: *Ibid* **7** (1979), p. 925.

43. “Repeated measurements designs, II” (with K. Afsarinejad), *Annals of Statistics* **6** (1978), 619–628.
44. “A generalization of sum composition: Self-orthogonal Latin squares designs with sub-self-orthogonal Latin square designs,” *Journal of Combinatorial Theory, Series A* **24** (1978), 202–210.
45. “Hadamard matrices and their applications” (with W. D. Wallis), *Annals of Statistics* **6** (1978), 1184–1238.
46. “An introduction to design optimality with an overview of the literature” (with A. Ash), *Communications in Statistics, Series A—Theory and Methods* **7** (1978), 1295–1325.
47. “The trade off method in the construction of BIB designs with repeated blocks” (with S-Y. R. Li), *Annals of Statistics* **7** (1979), 1277–1287.
48. “Sampling design with reduced support sizes,” in *Optimizing Methods in Statistics*, J. Rustagi, ed., Academic Press, 1979, 273–288.
49. “An algebraic study of BIB designs: A complete solution for  $v = 6$  and  $k = 3$ ” (with G. B. Khosrovshahi), *Journal of Combinatorial Theory, Series A* **30** (1979), 43–52.
50. “The family of t-designs: Part I.” (with S. Kageyama), *Journal of Statistical Planning and Inference* **4** (1980), 173–212.
51. “Combinatorial topology and the trade off method in BIB designs” (with S-Y. R. Li), *Annals of discrete mathematics* **6** (1980), 189–200.
52. “Study of optimality criteria in design of experiments,” in *Statistics and Related Topics*, M. Csorgo, D. A. Dawson, J. N. K. Rao and A. K. M. E. Saleh, eds., North Holland Publishing Co., 1981, 39–56.
53. “Repeated measurements designs, IV: Recent advances,” in *Proceedings of the 43rd Session of the International Statistical Institute*, vol. XLIX, Bulletin of the International Statistical Institute, 1981, 591–610.
54. “A construction of repeated measurements designs with balance for residual effects” (with G. M. Constantine), *Journal of Statistical Planning and Inference* **6** (1982), 153–164.
55. “Complete designs with blocks of maximal multiplicity” (with G. M. Constantine), *Journal of Statistical Planning and Inference* **7** (1983), 289–294, *Corrigendum: Ibid* **7** (1983), 417.
56. “The family of t-designs: Part II” (with S. Kageyama), *Journal of Statistical Planning and Inference* **7** (1983), 257–287.

57. “An algorithm for generating a basis of the trades on t-designs” (with H. Hwang), *Communications in Statistics, Series B—Simulation and Computation* **12** (1983), 109–125.
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61. “A characterization of a universally optimal design within a class of block designs,” *Journal of Statistical Planning and Inference* **9** (1984), 143–145.
62. “Pairwise orthogonal F-rectangle designs” (with W. T. Federer and J. P. Mandili), *Journal of Statistical Planning and Inference* **10** (1984), 365–374.
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68. “Combining experiments under Gauss-Markov models” (with D. Majumdar), *Journal of The American Statistical Association* **80** (1985), 698–703.
69. “Characterization of triply balanced matrices with applications to survey sampling” (with H. Pesotan), *Journal of Statistical Planning and Inference* **15** (1986), 11–17.

70. “Fractional factorial designs in the form of incomplete orthogonal arrays” (with J. Stufken), in *Statistical Design: Theory and Practice*, C. E. McCulloch, S. J. Schwager, G. Casella and S. R. Searle, eds., Cornell University Press, 1986, 101–115.
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72. “Model robust optimal designs for comparing test treatments with a control” (with D. Majumdar), *Journal of Statistical Planning and Inference* **18** (1987), 25–33.
73. “Designs for survey sampling avoiding contiguous units” (with C. R. Rao and J. Stufken), in *Handbook of Statistics Sampling*, P. R. Krishnaiah and C. R. Rao, eds., vol. 6, North-Holland, Amsterdam, 1988, 575–583.
74. “Sampling plans excluding contiguous units” (with C. R. Rao and J. Stufken), *Journal of Statistical Planning and Inference* **19** (1988), 159–170.
75. “Two-symbol orthogonal arrays” (with J. Stufken), in *Optimal Design and Analysis of Experiments*, Y. Dodge, V. V. Fedorov and H. P. Wynn, eds., Elsevier Science Publishers, B.V, North -Holland, 1988, 47–58.
76. “A graphical proof of the nonexistence of BIB  $(7, b, r, 3, \lambda | 16)$  designs” (with W. Foody), *Journal of Statistical Planning and Inference* **20** (1988), 77–90.
77. “Optimal designs for comparing test treatments with controls, [with discussions]” (with M. Jacroux and D. Majumdar), *Statistical Science* **3** (1988), 462–491.
78. “Block designs—a review on combinatorics” (with S. Kageyama), in *Proceedings of International Conference on Population Mathematics* Rasch, Pirchner and Adams, ed., Rostock, D.D.R, 1988, 88–118.
79. “On the maximum number of constraints in orthogonal arrays” (with J. Stufken), *Annals of Statistics* **17** (1989), 448–451.
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82. “On a relation between pairwise balanced and variance balanced block designs” (with J. Stufken), *Journal of The American Statistical Association* **84** (1989), 753–755.

83. “On the maximum number of factors in two construction methods for orthogonal arrays” (with J. Stufken), in *Statistical Data Analysis and Inference 1989*, a volume in honor of C.R. Rao, Y. Dodge, ed., North-Holland, Amsterdam, 33–40.
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91. “Admissible extension of the sample mean and the Horvitz-Thompson estimator utilizing additional resources” (with K. W. Pu), in *Proceedings of Raj Chandra Symposium on Probability, Statistics and Design of Experiments*, Wiley Eastern Ltd., 1990, 369–382.
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93. “Some mathematical results on incomplete orthogonal arrays” (with J. Stufken), *Sankhya (special issue dedicated to the memory of Professor R.C. Bose)* **54** (1992), 197–202.
94. “Two-level factorial designs for main-effects and selected two-factor interactions” (with H. Pesotan), *Statistica Sinica* **2** (1992), 453–464.
95. “Coexistence of a family of systematic sampling designs with positive second order inclusion probabilities and block designs” (with H. Pesotan), *Information and System Sciences* **17** (1992), 113–122.

96. “A pair of orthogonal Latin squares of order 10 with four shared parallel transversals” (with J. W. Brown and E. T. Parker), *Journal of Combinatorics, Information & System Science, (special volume in honor of C.R. Rao)* **18** (1993), 109–111.
97. “A prospect for general method of constructing t-designs” (with G. B. Khosrovshahi and D. Majumdar), *Discrete Applied Mathematics* **42** (1993), 31–50.
98. “Blends of statistical designs for dose-response studies” (with G. Chi and K. Mahjoob), *Communications in Statistics - Theory & Methods* **A23** (1994), 341–360, (special issue on statistical issues in drug testing and drug evaluation).
99. “Optimum experimental designs for comparative bioavailability studies” (with H. Chen), *Journal of Statistical Planning and Inference* **42** (1994), 271–289, (special issue on statistical Design of Medical Experiments).
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101. “Virtually balanced incomplete block designs for  $v = 22$ ,  $k = 8$ , and  $\lambda = 4$ ” (with J. Stufken and W. Zhang), *Journal of Combinatorial Designs* **3** (1995), 195–201.
102. “Contingently and virtually balanced incomplete block designs and their efficiencies under various optimality criteria” (with J. Stufken and W. Zhang), *Statistica Sinica* **5** (1995), 575–591, (Invited contribution to special section on optimal design of experiments).
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104. “ $2^{n-l}$  designs with weak minimum aberration” (with H. Chen), *Annals of Statistics* **24** (1996), 2536–2548.
105. “On difference schemes and orthogonal arrays of strength  $t$ ” (with J. Stufken and G. Su), *Journal of Statistical Planning and Inference (special issue on orthogonal arrays and affine designs, Part II)* **56** (1996), 307–324.
106. “Random sampling for the forensic study of controlled substances” (with A. J. Azenman and W. G. Zhang), in *Proceedings of the Section on Physical and Engineering Sciences of the American Statistical Association - with discussion by Shari Seidman Diamond*, 1996, 12–23.
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110. “Designs for two-level factorial experiments with linear models containing main effects and selected two-factor interactions” (with H. Pesotan), *Journal of Statistical Planning and Inference* **64** (1997), 109–124.
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113. “Some recent advances in minimum aberration designs” (with H. Chen), in *New Developments and Applications in Experimental Designs*, vol. 34, 1998, 186–198, Institute of Mathematical Statistics Lecture Notes - Monograph series..
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115. “A family of optimal designs for experiments with multiple responses” (with H. Chen and C. Suen), *Journal of Combinatorics, Information and System Science* **23** (1998), 259–269 .
116. “Compound orthogonal arrays” (with J. Stufken), *Technometrics* **41** (1999), 57–61.
117. “Column optimal strongly threefold orthogonal matrices in a class index eight” (with H. Pesotan), *Linear Algebra and its Applications* **298** (1999), 171–191.
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120. “Compound orthogonal arrays and dispersion effects” (with J. Stufken), *Proceeding of the Fifth Iranian Statistics Conference* (2000), 51–68.

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