

Papers

Articles in Refereed Print Journals.

1. A reduction of the problem of semisimplicity. *J. Algebra* 10 (1968), 501–502.
2. Factor ideals of some representation algebras. *J. Austral. Math. Soc.* 9 (1969), 109–123.
3. Decomposition of representation algebras. *J. Austral. Math. Soc.* 10 (1969), 395–402.
4. Certain graphs arising from Hadamard matrices. *Bull. Austral. Math. Soc.* 1 (1969), 395–402.
5. On the relation between graphs and partially balanced incomplete block designs. *Bull. Austral. Math. Soc.* 1 (1969), 425–430.
6. Equivalence of Hadamard matrices. *Israel J. Math.* 7 (1969), 122–128 (with J. Wallis).
7. Generalisations of stability. *J. Algebra* 13 (1969), 481–485.
8. Some non-isomorphic graphs. *J. Combinatorial Theory* 8 (1970), 448–449.
9. On extreme tournaments. *Ann. N. Y. Acad. Sci.* 175 (1970), 403–404.
10. On the identity of certain representation algebra decompositions. *Bull. Austral. Math. Soc.* 3 (1970), 73–74 (with S. B. Conlon).
11. A construction for partially balanced incomplete block designs. *Austral. J. Statist.* 12 (1970), 160–161.
12. A non-existence theorem for (v, k, λ) -graphs. *J. Austral. Math. Soc.* 11 (1970), 381–383.
13. A note on quasi-symmetric designs. *J. Combinatorial Theory* 9 (1970), 100–101.
14. Integral equivalence of Hadamard matrices. *Israel J. Math.* 10 (1971), 349–358.
15. Some notes on integral equivalence of combinatorial matrices. *Israel J. Math.* 10 (1971), 457–464.
16. On the existence of Room squares of order $4n$. *Aequationes Math.* 6 (1971), 306–309 (with R. C. Mullin).
17. Construction of strongly regular graphs using affine designs. *Bull. Austral. Math. Soc.* 4 (1971), 41–49. Construction of strong regular graphs using affine designs: corrigenda. *Bull. Austral. Math. Soc.* 5 (1971), 431.
18. A remark on Latin squares and block designs. *J. Austral. Math. Soc.* 13 (1972), 205–207.
19. Duplication of Room squares. *J. Austral. Math. Soc.* 14 (1972), 75–81.
20. A doubling construction for Room squares. *Discrete Math.* 3 (1972), 397–399.
21. On Archbold's construction for Room squares. *Utilitas Math.* 2 (1972), 47–53.
22. On a problem of K. A. Bush concerning Hadamard matrices. *Bull. Austral. Math. Soc.* 6 (1972), 321–326.
23. On circulant rosters. *SCIMA* 1 (1972), 99–119.
24. Some concepts of graph theory. *Austral. Math. Teacher* 28 (1972), 53–60; 110–112.
25. On the number of pairwise orthogonal symmetric Latin squares. *Utilitas Math.* 4 (1973), 239–251 (with K. B. Gross and R. C. Mullin).
26. Room squares of side five. *Delta* 3 (4) (1973), 32–36.

27. My favourite family of block designs. *Congressus Num.* 8 (1973), 91–108.
28. On the existence of Room squares. *Aequationes Math.* 9 (1973), 260–266.
29. Room squares with subsquares. *J. Combinatorial Theory*, Series A, 15 (1973), 329–332.
30. Configurations arising from maximal arcs. *J. Combinatorial Theory*, Series A, 15 (1973), 115–119.
31. On the number of inequivalent Hadamard matrices. *Congressus Num.* 7 (1973), 383–401.
32. On one-factorisations of complete graphs. *J. Austral. Math. Soc.* 16 (1973), 167–171.
33. A family of Room subsquares. *Utilitas Math.* 4 (1973), 9–14.
34. A Room square of side 257. *Congressus Num.* 8 (1973), 533.
35. Recent advances on complementary and skew Room squares. *Congressus Num.* 8 (1973), 521–531 (with R. C. Mullin).
36. A listing of (v, b, r, k, λ) designs, $r \leq 30$. *Congressus Num.* 8 (1973), 249–258 (with J. di Paola and J. Wallis).
37. Construction of skew Room squares. *Aequationes Math.* 11 (1) (1974), 111–113.
38. Solution of the Room square existence problem. *J. Combinatorial Theory*, Series A, 17 (1974), 379–383.
39. A skew Room square of side nine. *Utilitas Math.* 9 (1975), 383 (with I. R. Beaman).
40. The existence of Room squares. *Aequationes Math.* 13 (1975), 1–7 (with R. C. Mullin).
41. The number of monochromatic triangles in proper colourings of a complete graph. *J. Comb., Inf. & Syst. Sci.* (1976), 17–20.
42. Sum-free sets, coloured graphs and designs. *J. Austral. Math. Soc.* Series A, 22 (1976), 35–53 (with A. Street).
43. On the weights of Hadamard matrices. *Ars Combinatoria* 3 (1977), 287–292.
44. Which isomorphic factorisations of regular graphs are block designs? *J. Comb., Inf. & Syst. Sci.* 2 (1977), 104–106.
45. An application of conference matrices. *Ars Combinatoria* 3 (1977) 267–260 (with R. G. Stanton).
46. A transversal algorithm for regular square incidence matrices. *Congressus Num.* 19 (1977), 213–226 (with L. J. Cummings).
47. Isomorphic factorisations II: Block designs. *Congressus Num.* 19 (1977), 13–28 (with F. Harary).
48. Concerning the spectrum of skew Room squares. *Ars Combinatoria* 6 (1978), 277–291 (with R. C. Mullin and D. R. Stinson).
49. Hadamard matrices and their applications. *Ann. Statist.* 6 (1978), 1184–1238 (with A. Hedayat).
50. Hamiltonian cycles in certain graphs. *J. Austral. Math. Soc.* 26A (1978), 89–98 (with K. Heinrich).
51. Graphs with symmetric automorphism group. *J. Graph Theory* 2 (1978), 329–336 (with K. Heinrich).
52. Pairwise orthogonal symmetric Latin squares. *Congressus Num.* 21 (1979), 113–118 (with I. R. Beaman).
53. Skew squares of low order. *Congressus Num.* 22 (1979), 413–434 (with R. C. Mullin and D. R. Stinson).
54. Spouse-avoiding mixed doubles tournaments. *Proc. N. Y. Acad. Sci.* 319 (1979), 549–554.
55. An exceptional case in the classification of finite linear spaces. *Congressus Num.* 26 (1980), 229–279 (with R. C. Mullin).
56. Maximal sets of deficiency three. *Congressus Num.* 23 (1980), 217–227 (with

- L. Caccetta).
57. Some designs used in constructing skew room squares. *Ann. Discrete Math.* 8 (1980), 171–175 (with D. R. Stinson).
 58. Almost Graeco-Latin squares. *Ars Combinatoria* 10 (1980), 55–63 (with K. Heinrich).
 59. Hadamard equivalence. *Congressus Num.* 28 (1980), 15–25.
 60. Existence of orthogonal diagonal latin squares. *Ars Combinatoria* 12 (1981), 51–68 (with L. Zhu).
 61. On the existence of frames. *Discrete Math.* 37 (1981), 79–104 (with R. C. Mullin, P. J. Schellenberg and S. A. Vanstone).
 62. The smallest regular graphs without one-factors. *Ars Combinatoria* 11(1981), 295–300.
 63. A one-factorisation of a cartesian product. *Utilitas Math.* 20 (1981), 21–25.
 64. On a Ramsey number for paths. *J. Comb., Inf. & Syst. Sci.* 6 (1981), 295–296.
 65. The effect of starting position in jai-alai. *Congressus Num.* 32 (1981), 253–259 (with C. S. Dibley).
 66. A note on one-factorisations having a prescribed number of edges in common. *Ann. Discrete Math.* 112 (1982), 203–209 (with C. C. Lindner).
 67. On one-factorizations of compositions of graphs. *J. Graph Theory* 6 (1982), 75–80 (with P. Himelwright and J. E. Williamson).
 68. Asymptotic values of clique partition numbers. *Combinatorica* 2 (1982), 99–101.
 69. Clique coverings of graphs V: maximal-clique partitions. *Bull. Austral. Math. Soc.* 25 (1982), 337–356 (with N. J. Pullman and H. Shank).
 70. The number of non-isomorphic solutions to a problem in covering designs. *Utilitas Math.* 21A (1982), 119–136 (with R. G. Stanton, J. L. Allston and D. D. Cowan).
 71. Four pairwise orthogonal diagonal Latin squares of side twelve. *Utilitas Math.* 21C (1982), 205–207 (with L. Zhu).
 72. All Room squares have minimal supersquares. *Congressus Num.* 36 (1982) 3–14.
 73. Embeddings and prescribed intersections of transitive triple systems. *Ann. Discrete Math.* 15 (1982), 265–272 (with C. C. Lindner).
 74. A new Room square. *Congressus Num.* 34 (1982), 457–460.
 75. Premature sets of one-factors, or, how not to schedule a round-robin tournament. *Discrete Applied Math.* 4 (1982), 291–297 (with A. Rosa).
 76. Calling three cards. *School Math. J.* 24(1983), 21–23; 25(1983), 25–30.
 77. A tournament problem. *J. Austral. Math. Soc. Series B* 24 (1983), 289–291.
 78. One-factorisations of wreath products. In *Combinatorial Mathematics VIII, Proceedings of the Eight Australian Conference* (Springer-Verlag, 1981), 337–345.
 79. Some new orthogonal diagonal Latin squares. *J. Austral. Math. Soc. Series A* 34 (1983), 49–54 (with L. Zhu).
 80. Two-fold triple systems without repeated blocks. *Discrete Math.* 47 (1983), 84–88 (with D. R. Stinson).
 81. The problem of the hospitable golfers. *Ars Combinatoria* 15 (1983), 149–152.
 82. Snappy constructions for triple systems. *Gazette Austral. Math. Soc.* 10 (1983), 84–88 (with D. R. Stinson).
 83. Room squares with holes of sides 3, 5 and 7. *Discrete Math.* 47 (1983), 221–228.
 84. LISP through ULISP. *Congressus Num.* 42 (1984), 121–130 (with D. W. E. Blatt, A. Narayanan and A. Nymeyer).
 85. Three orthogonal Latin squares. *Congressus Num.* 42 (1984), 69–86 (reprinted in *Advances in Mathematics* 15 (1986), 269–281).

86. Frames for twofold triple systems. *Ars Combinatoria* 17 (1984), 69–78 (with C. J. Colbourn and K. E. Manson).
87. On strongly accessible graphs. *Ars Combinatoria* 17A (1984) 93–102 (with L. Caccetta and K. Vijayan).
88. A problem in arrangements. *Math. Gazette* 68, (1984) 106–111 (with L. Caccetta).
89. Some bounds for pairwise orthogonal diagonal Latin squares. *Ars Combinatoria* 17A (1984), 353–366 (with L. Zhu).
90. An even-side analogue of Room squares. *Aeq. Math.* 27 (1984), 201–213. (with D. R. Stinson).
91. The existence of orthogonal Latin squares with small subsquares. *J. Comb., Inf. & Syst. Sci.* 9 (1984) 1–13 (with L. Zhu).
92. Sets of orthogonal one-factorizations of K_{10} . *Congressus Num.* 43 (1984), 45–79 (with D. Archdeacon and J. Dinitz).
93. Permutations by derangement (solution to problem 1186). *Math. Mag.* 58(1985), 112–113 (with R. B. Eggleton).
94. Clique partitions of the complement of a one-factor. *Congressus Num.* 46 (1985), 317–319.
95. The clique partition number of the complement of a cycle. *Ann. Discrete Math.* 27 (1985), 335–344.
96. On one-factorizations of cartesian products. *Congressus Num.* 49 (1985), 237–245 (with Z. Wang).
97. Four orthogonal one-factorizations on ten points. *Ann. Discrete Math.* 26 (1985), 143–150 (with J. H. Dinitz).
98. Equidistant permutation sequences. *Ars Combinatoria* 19A (1985) 257–271 (with R. B. Eggleton).
99. The development of combinatorics. *The Mathematical Scientist* 11 (1986), 33–43 (with T. H. Ku) (Reprinted in Chinese in *J. Math. Research & Exposition*).
100. Clique partitions of the cocktail party graph. *Discrete Math.* 59 (1986), 267–273 (with D. A. Gregory and S. McGuinness).
101. Embedding matrices in Hadamard matrices. *Lin. Multilin. Alg.* 19 (1986), 387–388.
102. Isomorphism properties of some small covers. *Utilitas Math.* 29 (1986), 269–283 (with R. C. Mullin, E. Nemeth and R. G. Stanton).
103. A class of resolvable pairwise balanced designs. *Congressus Num.* 55 (1986), 211–220 (with R. Rees).
104. Clique partitions of triangulated graphs. *Congressus Num.* 55 (1986), 93–101 (with S. Ma).
105. One-factorization of graphs: Tournament applications. *College Math. J.* 18 (1987), 116–123.
106. Graphs which are not leaves of maximal partial triple systems. *Ann. Discrete Math.* 34 (1987) 449–460 (with D. R. Stinson).
107. Construction methods for Bhaskar Rao and related designs. *J. Austral. Math. Soc.* 42A (1987), 197–212 (with P. B. Gibbons and R. Mathon).
108. Some further results on one-factorizations of cartesian products. *J. Combin. Math. Combin. Comput.* 1 (1987) 221–234 (with Z. Wang).
109. Clique numbers of threshold graphs. *Caribbean J. Math.* 5(1988), 29–45 (with S. Ma).
110. Monochromatic triangles in three colors. *Bull. Austral. Math. Soc.* 37(1988), 197–212 (with S. S. Sane).
111. Maximal-clique partitions of interval graphs. *J. Austral. Math. Soc.* 45A(1988), 227–232 (with S. Ma).
112. The complexity of the clique partition number problem. *Congressus Num.*

- 67(1988), 59–66 (with S. Ma and J. Wu).
113. Profiles of Hadamard matrices of order 24. *Congressus Num.* 66(1988), 93–102 (with C. Lin).
 114. On the clique partition number of the complement of a triangle. *Congressus Num.* 66(1988), 217–226 (with G. Zhang).
 115. Some small Kirkman squares. *Ars Combinatoria* 27(1989), 197–200.
 116. Indecomposable factorizations of multigraphs. *Discrete Math.* 78(1989), 37–43 (with A. H. Baartmans).
 117. Clique covering of chordal graphs. *Utilitas Math.* 36(1989), 151–152 (with S. Ma and J. Wu).
 118. A class of premature sets of one-factors. *Ann. N. Y. Acad. Sci.* 555(1989), 425–428.
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 120. Problem 112. *Discrete Math.* 78(1989), 213–216 (with K. Heinrich).
 121. Optimization problems on quasi-threshold graphs. *J. Comb., Inf. & Syst. Sci.* 14(1989), 105–110 (with S. Ma and J. Wu).
 122. Finite planes and clique partitions. *Contemporary Math.* 111(1990), 279–285.
 123. On self-orthogonal diagonal Latin squares. *J. Combin. Math. Combin. Comput.* 8(1990), 3–8 (with K. A. Danhof and N. C. K. Phillips).
 124. On maximal clique-irreducible graphs. *J. Combin. Math. Combin. Comput.* 8(1990), 187–193 (with G. Zhang).
 125. Generalized clique coverings of chordal graphs. *Austral. J. Combin.* 1(1990), 233–236 (with J. Wu).
 126. Not all perfect extrinsic secret sharing schemes are ideal. *Austral. J. Combin.* 2(1990), 237–238.
 127. The lengths of trains. *Congressus Num.* 77(1990), 199–204.
 128. Trains: an invariant for one-factorizations. *Ars Combin.* 32(1991), 161–180 (with J. Dinitz).
 129. On optimal weighing designs. *J. Combin. Math. Combin. Comput.* 10(1991), 201–204 (with C. Lin).
 130. Symmetric and skew equivalence of Hadamard matrices. *Congressus Num.* 85(1991), 73–79 (With C. Lin).
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 132. Staircase factorizations. *Gazette Austral. Math. Soc.* 18(1991), 1–3.
 133. A linear model of a learning scheme. *J. Combin. Math. Combin. Comput.* 9 (1991), 187–190 (with C.-L. J. Hu).
 134. Packing complete graphs with squares. *Bull. Inst. Comb. Appl.* 1 (1991), 85–92 (with D. G. Hoffman).
 135. Sets of properly separated permutations. *Congressus Num.* 80(1991), 185–191 (with R. C. Mullin and D. R. Stinson).
 136. The spectrum of maximal sets of one-factors. *Discrete Math.* 97(1991), 357–369 (with R. Rees).
 137. A geometric construction of the Steiner system $S(4,7,23)$. *Discrete Math.* 102 (1992), 177–186 (with A. Baartmans and J. Yucas).
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 140. Barker sequences and circulant Hadamard matrices. *J. Comb., Inf. & Syst. Sci.* 18 (1993), 19–25 (with C. Lin).
 141. On the partition and coloring of a graph by cliques. *Discrete Math.* 120 (1993), 191–203 (with G-H. Zhang).
 142. Single-change covering designs. *Designs, Codes & Cryptography* 3 (1993),

- 9–19 (with J. L. Yucas and G-H. Zhang).
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 144. Note on the parameters of balanced designs. *Austral. J. Combin.* 8 (1993), 75–76.
 145. On decomposing complete graphs into trees. *Ars Combin.* 35A (1993), 55–63.
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 147. Equivalence classes of Hadamard matrices of order 32. *Congressus Num.* 95 (1993), 179–182 (With C. Lin and L. Zhu).
 148. Hadamard Matrices, 1893–1993. *Congressus Num.* 97 (1993), 99–129 (With R. Craigen).
 149. Clique sequences of chordal graphs. *Vishwa Int. J. Graph Theory* 2 (1993), 85–92 (with J. Wu).
 150. On the circulant Hadamard matrix conjecture. *Coding Theory, Design Theory, Group Theory* (Wiley, 1993), 213–217 (with C. Lin).
 151. Constructing bridge club designs. *Bull. Inst. Comb. Appl.* 11 (1994), 122–125 (with G. F. Royle).
 152. Large sets and Room squares. *Bull. Inst. Comb. Appl.* 12 (1994), 93–94.
 153. Maximal sets of triangle factors. *Austral. J. Combin.* 9 (1994), 67–108 (With R. Rees and A. Rosa).
 154. Symmetric and skew Hadamard matrices of order 28. *Ars Combin.* 41(1995), 25–31 (With A. H. Baartmans and C. Lin).
 155. On the spectrum of k-multiple free sets of integers. *Ars Combin.* 41(1995), 57–64 (With W.-D. Wei).
 156. Single-change neighbor designs. *Austral. J. Combin.* 11(1995), 247–258 (with R. L. Constable, N. C. K. Phillips, T. D. Porter and D. A. Preece).
 157. Squares, clique-graphs and chordality. *J. Graph Theory.* 20(1995), 37–45 (with J. Wu).
 158. Tight single-change covering designs. *Utilitas Math.* 47(1995), 55–84 (with R. L. Constable, J. P. McSorley, N. C. K. Phillips, D. Preece, J. L. Yucas and G. Zhang).
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 162. Regular graph designs *J. Statist. Plann. Inf.* 51 (1996), 273–281.
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 165. Subfactorizations and asymptotic numbers of one-factorizations. *Bull. Inst. Combin. Appl.* 27 (1997), 27–32.
 166. Kirkman's school projects. *Discrete Math.* 167/168 (1997), 189–196 (with A. Černý & P. Horák).
 167. Counting frequencies of configurations in Steiner triple systems. *Ars Combin.* 46(1997), 65–75 (with P. Horak, N. K. C. Phillips and J. L. Yucas).
 168. Minimum order of a graph with given deficiency and either minimum or maximum degree. *Ars Combinatoria* 50 (1998), 187–192 (with Purwanto).
 169. Skew-Hadamard matrices and the Smith normal form. *Designs, Codes & Crypt.* 13 (1998), 173–176 (with T. S. Michael).
 170. Kirkman packing and covering designs. *J. Combin. Math. Combin. Comput.* 28

- (1998), 299–325 (With N. C. K. Phillips and R. S. Rees).
171. The existence of self-conjugate self-orthogonal diagonal Latin squares. *Ars Combin.* 53 (1999), 97–109 (with B. Du).
 172. Maximal sets of mutually orthogonal Latin squares. *Discrete Math.* 194 (1999), 87–94 (With D. A. Drake and G. H. J. van Rees).
 173. Minimal relative separators of chordal graphs. *J. Comb., Inf. & Syst. Sci.* 24 (1999), 47–54 (with D. Haile and J. Wu).
 174. Well-spread sequences. *J. Combin. Math. Combin. Comput.* 31 (1999), 91–96 (With N. C. K. Phillips).
 175. Characterizing balanced bipartite graphs with part-switching automorphisms. *Bull. Inst. Comb. Appl.* 28 (2000), 85–88 (With J. C. George and T. D. Porter).
 176. Edge-magic total labelings. *Australas. J. Combin.* 22 (2000), 177–190 (with E. T. Bascoro, M. Miller and Slamin).
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 181. Graph distances using graph union. *Pattern Recognition Letters* 22 (2001), 701–704 (with P. J. Shoubridge, M. Kraetzl and D. Ray).
 182. Two Results of Kotzig on magic labelings. *Bull. Inst. Combin. Appl.* 36(2002), 23–28
 183. Vertex magic labelings of multiple graphs. *Congressus Num.* 152 (2001), 81–83.
 184. Measuring change in large enterprise data networks. *2002 Information, Decision and Control* (IEEE 2002), 53–58 (with H. Bunke, P. J. Shoubridge and M. Kraetzl).
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 191. On the spectra of totally magic labelings. *Bull. Inst. Combin. Appl.* 37(2003), 58–62 (with J. P. McSorley).
 192. Note on Agrawal’s “designs for the elimination of heterogeneity.” *J. Combin. Math. Combin. Comput.* 46(2003), 155–160 (with J. Yucas).
 193. An elusive array. *Bull. Inst. Combin. Appl.* 39 (2003), 39–40 (with N. C. K. Phillips).
 194. Strong edge-magic labelling of a cycle with a chord. *Australas. J. Combin.* 28 (2003), 245–255 (with J. A. MacDougall).
 195. On constant weight TSP-tours. *Discussiones Math. Graph Theory* 23(2003), 287–307 (with S. Jones, P. M. Kayll and B. Mohar).
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200. Paley triple arrays. *Austral. J. Combin.* 33 (2005), 237–246 (with D. A. Preece and J. L. Yucas).
201. Tournaments for triads. *Bull. Inst. Combin. Appl.* 43(2005), 27–32.
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207. Modality distance between graphs. *Utilitas Math.* 69(2006), 97–102 (with M. Kraetzl).
208. Closed-neighborhood anti-Sperner graphs. *Austral. J. Combin.* 38(2007), 63–76 (with J. P. McSorley, A. Marr and T. D. Porter).
209. Enterprise graphs and small worlds. *J. Interdisciplinary Math.* 10(2007), 349–362 (with M. Kraetzl).
210. Classroom note: The handshake problem and generalizations. *Bull. Inst. Combin. Appl.* 52(2008), 61–64.
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212. On the anomalous behavior of a class of locality statistics. *Discrete Math.* 308(2008), 2034–2037 (with C. E. Priebe).
213. Strong edge-magic graphs of maximum size. *Discrete Math.* (with J. A. MacDougall) (to appear).
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Articles in Refereed Online Journals.

1. Algorithms for learning and teaching sets of vertices in graphs. *ArXiv:math,CO/9411223v1* (1994), 11pp. (with P. A. Evans, M. R. Fellows and L. H. Clark).

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