

SELECTED REFERENCES

1. Balas, E., "Intersection Cuts--A New Type of Cutting Planes for Integer Programming", *Operations Research*, 19, 19-39, 1971.
2. Balas, E., "Integer Programming and Convex Analysis: Intersection Cuts from Outer Polars", *Mathematical Programming*, 2, 330-382, 1972.
3. Balas, E., "Nonconvex Quadratic Programming Via Generalized Polars", *Management Science Research Report No. 278*, GSIA, Carnegie-Mellon University, 1972.
4. Balas, E., "Intersection Cuts from Disjunctive Constraints", Management Science Research Report, No. 330, Carnegie-Mellon University, February 1974.
5. Balas, E., "Disjunctive Programming: Properties of the Convex Hull of Feasible Points", *Management Science Research Report 348*, GSIA, Carnegie-Mellon University, 1974.
6. Balas, E., "Disjunctive Programming: Cutting Planes from Logical Conditions", in *Nonlinear Programming*, O. L. Mangasarian, R. R. Meyer, and S. M. Robinson, eds., Academic Press, New York, 1975.
7. Balas, E., "Disjunctive Programming", *Management Science Research Report No. 415*, Carnegie-Mellon University, August 1977.
8. Balas, E., and C. A. Burdet, "Maximizing a Convex Quadratic Function Subject to Linear Constraints", *Management Science Research Report No. 299*, GSIA, Carnegie-Mellon University, 1973.
9. Bazaraa, M. S. and C. M. Shetty, "Nonlinear Programming: Theory and Algorithms", John Wiley and Sons, New York, 1979.
10. Burdet, C. A., "Polaroids: A New Tool in Nonconvex and in Integer Programming", *Naval Research Logistics Quarterly*, 20, 13-22, 1973.
11. Burdet, C. A., "On Polaroid Intersections", in *Mathematical Programming in Theory and Practice*, P. Hammer and G. Zoutendijk, eds., North Holland, 1974.
12. Burdet, C. A., "Elements of a Theory in Nonconvex Programming", Naval Research Logistics Quarterly, Volume 24, No. 1, pp. 47-66, 1977.
13. Burdet, C. A., "Convex and Polaroid Extensions", Naval Research Logistics Quarterly, Volume 26, No. 1, pp. 67-82, 1977.
14. Dem'janov, V. F., "Seeking a Minimax on a Bounded Set", Soviet Mathematics Doklady, Volume 11, pp. 517-521, 1970 (English Translation).
15. Glover, F. and D. Klingman, "The Generalized Lattice Point Problem", *Management Science Research Report 71-3*, University of Colorado, 1971.
16. Glover, F., "Convexity Cuts and Cut Search", *Operations Research*, 21, 123-134, 1973.
17. Glover, F., "Convexity Cuts for Multiple Choice Problems", Discrete Mathematics, Volume 6, pp. 221-234, 1973.
18. Glover, F., "Polyhedral Convexity Cuts and Negative Edge Extensions", Zeitschrift für Operations Research, 18, pp. 181-186, 1974.

19. Glover, F., "Polyhedral Annexation in Mixed Integer and Combinatorial Programming", Mathematical Programming, Vol. 8, pp. 161-188, 1975. (See also MSRS Report 73-9, University of Colorado, August 1973).
20. Glover, F., D. Klingman and J. Stutz, "The Disjunctive Facet Problem: Formulation and Solution Techniques", Management Science Research Report, No. 72-10, University of Colorado, 1972.
21. Grünbaum, B., "Convex Polytopes", Interscience, New York, 1967.
22. Held, M., P. Wolfe, and H. D. Crowder, "Validation of Subgradient Optimization", Mathematical Programming, Volume 6, pp. 62-88, 1974.
23. Jeroslow, R. G., "The Principles of Cutting Plane Theory: Part I", (with an addendum), GSIA, Carnegie-Mellon University, February, 1974.
24. Jeroslow, R. G., "Cutting Planes for Complementarity Constraints", SIAM Journal of Control and Optimization, Volume 16, No. 1, pp. 56-62, 1976.
25. Jeroslow, R. G., "Cutting Plane Theory: Disjunctive Methods", Annals of Discrete Mathematics, Volume 1, pp. 293-330, 1977.
26. Jeroslow, R. G., "A Cutting Plane Game and its Algorithms", Discussion Paper No. 7724, Center for Operations Research and Econometrics, University of Catholique de Louvain, June 1977.
27. Karlin, S., "Mathematical Methods and Theory in Games, Programming and Economics", Volume 1, Addison-Wesley Publishing Company, Reading, Mass., 1959.
28. Majthay, A. and A. Whinston, "Quasi-Concave Minimization Subject to Linear Constraints", Discrete Mathematics, Volume 9, pp. 35-59, 1974.
29. Owen, G., "Cutting Planes for Programs with Disjunctive Constraints", Optimization Theory and Its Applications, Volume 11, pp. 49-55, 1973.
30. Poljak, B. T., "A General Method of Solving Extremum Problems", Soviet Mathematics Doklady, Volume 8, pp. 593-597, 1967. (English Translation).
31. Poljak, B. T., "Minimization of Unsmooth Functionals", USSR Computational Mathematics and Mathematical Physics, Volume 9, pp. 14-29, 1969. (English Translation).
32. Sherali, H. D. and C. M. Shetty, "Deep Cuts in Disjunctive Programming", Naval Research Logistics Quarterly, Volume 27, pp. 453-475, 1980.
33. Sherali, H. D. and C. M. Shetty, "A Finitely Convergent Algorithm for Bilinear Programming Problems Using Polar Cuts and Disjunctive Face Cuts", Math Programming, to appear.
34. Sherali, H. D. and C. M. Shetty, "Disjunctive Programming, Polyhedral Annexation Techniques, and Nondominated Disjunctive Cutting Planes", Georgia Institute of Technology, 1979.
35. Sherali, H. D. and C. M. Shetty, "A Finitely Convergent Procedure for Facial Disjunctive Programs", Georgia Institute of Technology, 1979.
36. Vaish, H. and C. M. Shetty, "A Cutting Plane Algorithm for the Bilinear Programming Problem", Naval Research Logistics Quarterly, Volume 24, No. 1, pp. 83-94, March 1975.

- Vol. 83: NTG/GI-Gesellschaft für Informatik, Nachrichtentechnische Gesellschaft. Fachtagung „Cognitive Verfahren und Systeme“, Hamburg, 11.–13. April 1973. Herausgegeben im Auftrag der NTG/GI von Th. Einsele, W. Giloi und H.-H. Nagel. VIII, 373 Seiten. 1973.
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