

Lectures On Polytopes

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Adjacency on Polytopes in Combinatorial Optimization
Angle Sums on Polytopes and Polytopal Complexes
Polynomial Approximation on Polytopes
Convex Polytopes
Triangulations of Point Configurations and Polytopes
Algebraic and Combinatorial Methods for Face Enumeration in Polytopes
Regular Polytopes
Iterated Fiber Polytopes
Mathematics of Operations Research
Facial Enumeration in Polytopes, Spheres and Other Complexes
Ganit Israel Journal of Mathematics
Bulletin of the Novosibirsk Computing Center
BAG Polytopes in Computational Biology
Proceedings
Duke Mathematical Journal
Canadian Journal of Mathematics
Integer Programming and Combinatorial Optimization
Günter M. Ziegler
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based on a graduate course at the technische universität berlin these lectures present a wealth of material on the modern theory of convex polytopes the straightforward exposition features many illustrations and complete proofs for most theorems with only linear algebra as a prerequisite it takes the reader quickly from the basics to topics of recent research the lectures introduce basic facts about polytopes with an emphasis on methods that yield the results discuss important examples and elegant constructions and show the excitement of current work in the field they will provide interesting and enjoyable reading for researchers as well as students

polynomial approximation on convex polytopes in is considered in uniform and norms for an appropriate modulus of smoothness matching direct and converse estimates are

proven in the case so called strong direct and converse results are also verified the equivalence of the moduli of smoothness with an appropriate functional follows as a consequence the results solve a problem that was left open since the mid 1980s when some of the present findings were established for special so called simple polytopes

articles of mathematical interest as well as operations research and management science

without specializing in a small number of subject areas this journal emphasizes the most active and influential areas of current mathematics

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