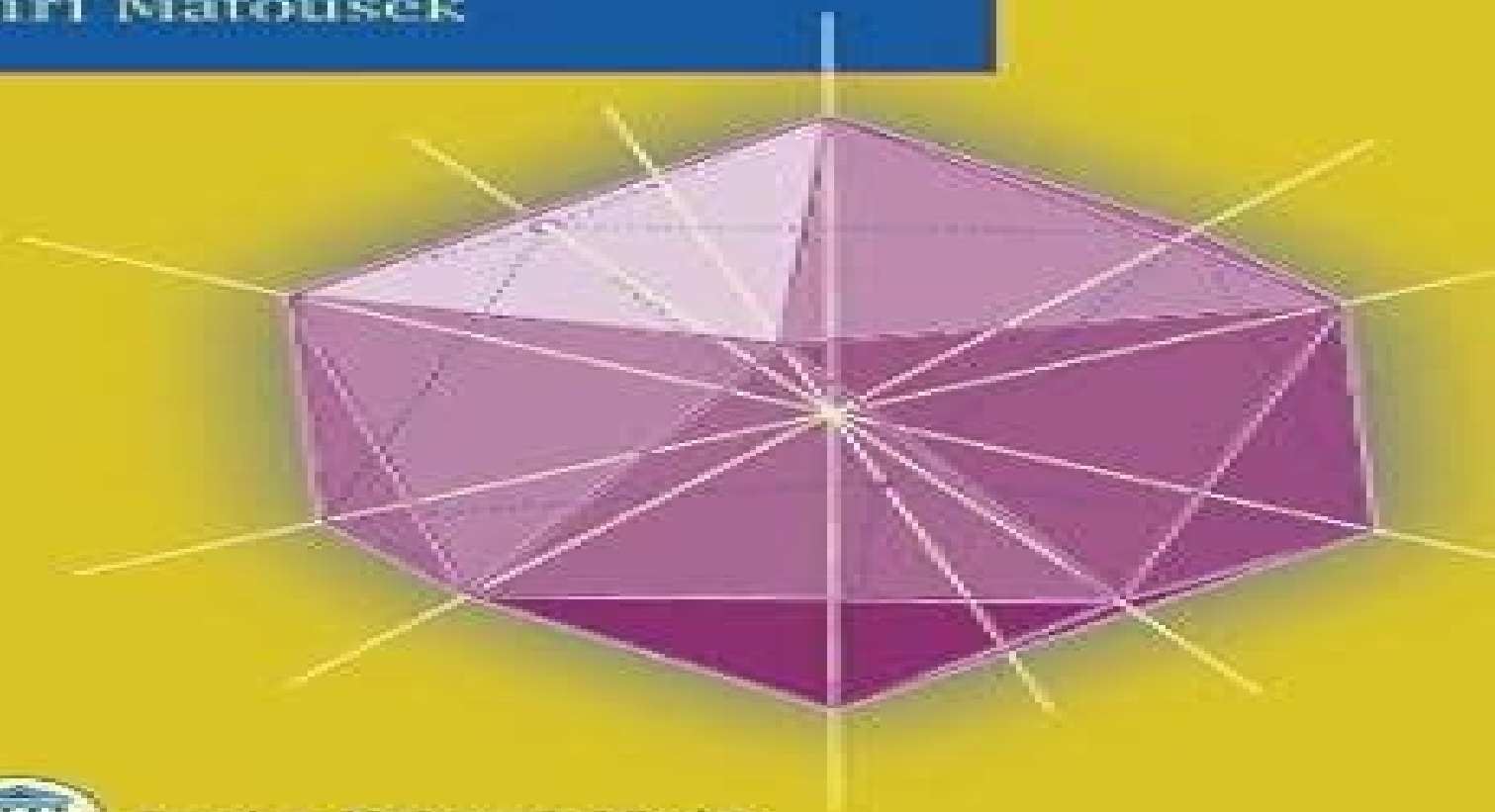


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Thirty-three Miniatures

Mathematical and
Algorithmic Applications
of Linear Algebra

Jiří Matoušek



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Challenges and Strategies in Teaching Linear Algebra Sepideh Stewart, Christine Andrews-Larson, Avi Berman, Michelle Zandieh, 2018-02-01 This book originated from a Discussion Group Teaching Linear Algebra that was held at the 13th International Conference on Mathematics Education ICME 13 The aim was to consider and highlight current efforts regarding research and instruction on teaching and learning linear algebra from around the world and to spark new collaborations As the outcome of the two day discussion at ICME 13 this book focuses on the pedagogy of linear algebra with a particular emphasis on tasks that are productive for learning The main themes addressed include theoretical perspectives on the teaching and learning of linear algebra empirical analyses related to learning particular content in linear algebra the use of technology and dynamic geometry software and pedagogical

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A Journey Through Discrete Mathematics Martin Loeb, Jaroslav Nešetřil, Robin Thomas, 2017-10-11 This collection of high quality articles in the field of combinatorics geometry algebraic topology and theoretical computer science is a tribute to Ji Matoušek who passed away prematurely in March 2015 It is a collaborative effort by his colleagues and friends who have paid particular attention to clarity of exposition something Jirka would have approved of The original research articles surveys and expository articles written by leading experts in their respective fields map Ji Matoušek's numerous areas of mathematical interest Combinatorial, Computational, and Applied Algebraic Geometry Serkan Hoşten, Diane Maclagan, Frank Sottile, 2025-10-01 This volume consists of surveys on topics to which Bernd Sturmfels has contributed over his mathematical career invariant theory Gröbner bases toric ideals and varieties algebraic methods in discrete and convex optimization hypergeometric systems algebraic statistics likelihood geometry tropical geometry chemical reaction networks numerical methods in algebraic geometry sums of squares tropical geometry tensors and algebraic vision Each article gives a gentle introduction to the topic Many contributions summarize the state of the art in each subject The volume is perfect for anyone who wishes an entry point to any one of these diverse topics

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