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this book constitutes the refereed proceedings of the 19th international symposium on applied algebra algebraic algorithms and error correcting codes aaecc 13 held in honolulu hawaii usa in november 1999 the 42 revised full papers presented together with six invited survey papers were carefully reviewed and selected from a total of 86 submissions the papers are organized in sections on codes and iterative decoding arithmetic graphs and matrices block codes rings and fields decoding methods code construction algebraic curves cryptography codes and decoding convolutional codes designs decoding of block codes modulation and codes gröbner bases and ag codes and polynomials

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large sparse linear systems of equations are ubiquitous in science engineering and beyond this open access monograph focuses on factorization algorithms for solving such systems it presents classical techniques for complete factorizations that are used in sparse direct methods and discusses the computation of approximate direct and inverse factorizations that are key to constructing general purpose algebraic preconditioners for iterative solvers a unified framework is used that emphasizes the underlying sparsity structures and highlights the importance of understanding sparse direct methods when developing algebraic preconditioners theoretical results are complemented by sparse matrix algorithm outlines this monograph is aimed at students of applied mathematics and scientific computing as well as computational scientists and software developers who are interested in understanding the theory and algorithms needed to tackle sparse systems it is assumed that the reader has completed a basic course in linear algebra and numerical mathematics

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