This report covers research from October 1, 1990 to September 30, 1993. In addition to the principal investigators, the following graduate students received partial support and contributed to the research effort: Charlie Anderson, Greg Bain, Tom Lundy, Sarah Merz, Patty McKenna, and Eric Phelps. During the time period, Mr. Anderson and Mr. Lundy received their Ph.D.s and Ms. Merz and Mr. Phelps received their M.S. degrees. Ms. Merz, Ms. McKenna, and Mr. Phelps are continuing to work toward their Ph.D.s.

A. Papers submitted to refereed journals (and not yet published):


7-10. There are four other papers that John Maybee has submitted. John has recently retired and is away, so I don't have complete details on these papers.

B. Papers published in refereed journals:


C. Invited presentations at topical or scientific/technical society conferences:

Richard Lundgren and John Maybee gave nine invited presentations at conferences including the following: ARIDAM Conference at Rutgers University, SIAM Conference on Applied Linear Algebra in Minneapolis, Workshop on Combinatorial Matrix Theory in Minneapolis, AMS Regional Meeting in Fargo, Linear Algebra Conference in Venezuela, and Conference on Graphs and Matrices in Boulder. In addition, each of us gave several invited talks at universities including: Naval Postgraduate School, California State University at San Marcos, Rutgers University, Queen’s University, and University of Victoria.

D. Contributed presentations at topical or scientific/technical society conferences:

Richard Lundgren and John Maybee gave eleven contributed presentations including the following: Southeastern International Graph Theory Conference every year, SIAM Conference on Discrete Math in Vancouver, British Combinatorial Conference, and Haifa Conference on Linear Algebra. In addition, graduate students Charlie Anderson, Tom Lundy, and Sarah Merz gave a total of seven contributed talks at these conferences and also an MAA Conference.

E. Technical reports published in non-refereed journals:


F. Honors, awards, prizes:

1. Richard Lundgren: Outstanding Service Award, CU-Denver College of Liberal Arts and Sciences, Spring, 1991.

2. Richard Lundgren: Senior Faculty Development Award, CU-Denver University Research Council, Spring, 1992.