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Contents. Preface ix  
Acknowledgments xiii 1  
Gaussian Elimination  
and Its Variants 1 1.1  
Matrix Multiplication 1  
1.2 Systems of Linear  
Equations 11 1.3  
Triangular Systems 23  
1.4 Positive Definite  
Systems; Cholesky  
Decomposition 32 1.5  
Banded Positive  
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consider a matrix  $G$  of size  $(n + 1) \times (n + 1)$  partitioned into a leading matrix  $G_{11}$  of size  $n \times n$ .  $G = \begin{pmatrix} G_{11} & 0 \\ h^T & g_{n+1,n+1} \end{pmatrix}$ . Now by expanding the determinant of  $G$  along its last column we see that  $|G| = g_{n+1,n+1} |G_{11}| = g_{n+1,n+1} \prod_{i=1}^n g_{ii} = \prod_{i=1}^{n+1} g_{ii}$ , proving by induction that the determinant of

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Decomposition. 1.5

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Definite Systems. 1.6

Sparse Positive Definite

Systems. 1.7 Gaussian  
Elimination and the LU

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Gaussain Elimination  
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Sparse Gaussian  
Elimination. 2

Sensitivity of Linear  
Systems. 2.1 Vector

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