



The set of subprograms referred to as MATHPAC/200 consist of the following:

- Floating-Point Matrix Add Subroutine (MATA)
- Floating-Point Matrix Subtract Subroutine (MATB)
- Floating-Point Matrix Multiply Subroutine (MATC)
- Floating-Point Matrix Scalar Multiply Subroutine (MATS)
- Floating-Point Matrix Transpose Subroutine (MATD)
- Floating-Point Matrix Transpose Special Subroutine (MATTS)
- Floating-Point Matrix Invert Subroutine (MATI)
- Floating-Point Linear Simultaneous Equations Subroutine (SIMEQ)
- Eigenvalue/Eigenvector Subroutine (EIGENJ)
- Eigen Systems Subroutine (EIGENS)
- Floating-Point Polynomial Roots Subroutine (POLRTS)
- Lagrange Table Lookup and Interpolation Function Subprogram (ALAGRF)
- Least Squares Curve Fit Subroutine (FIT)
- Differential Equations Numerical Integration Subroutine (DIFFEQ)

There is one section in the manual for each subprogram, with each section giving a brief description of the purpose of the subprogram, together with a description of the manner in which the subprogram may be called in a user's main program.

More detailed information on each subroutine may be obtained by referring to the GE-400 Series MATHPAC Application Handbook (CPE-1161).