

## IV. K-3型データ解析ソフトウェア

### IV. K-3 DATA ANALYSIS SOFTWARE

The softwares, which are necessary for the VLBI data analyses, have been developed in the K-3 system. All of them, except the automatic control software (KAOS), depend on the newly designed data base management system (KASTL). In part IV, the structure of this data base, the data base set-up software (KASET) and many utilities for the data base management are described first.

Secondly, the a priori calculating software (KAPRI) and the parameter estimation software (KLEAR) are described. These are executed using both the processed data and calibration data. There are several physical models to be examined by the data analysis in some KAPRI modules. KLEAR adjusts the a priori data to the processed data and determines the baseline parameters, earth rotation parameters, clock offsets and so on.

Thirdly, the schedule software (KASER) which severely affects the error of parameter estimation at KLEAR, is described. Finally, the data conversion utility software (KONV) between K-3 and Mark III format, is also shown here.