

Chapter 1: FORTRAN Statements

You will learn:

- FORTRAN program format.
- FORTRAN character set.
- FORTRAN statements.
- Variables.
- Constants.
- Arrays.
- EPC extension statements: executable and non executable.
- EPC features.

Chapter 2: Specification Statements

You will learn:

- Type specification.
- Type declarations other than CHARACTER.
- Statements: CHARACTER, IMPLICIT, DIMENSION, PARAMETER, EXTERNAL, COMMON, EQUIVALENCE.
- Internal storage structure for arrays.
- Changing a value.

Chapter 3: Expressions

You will learn:

- Arithmetic expressions.
- Mixed type arithmetic expressions.
- Relational expressions.
- CHARACTER relational expressions.
- LOGICAL expressions.

Chapter 4: Control Statements

You will learn:

- IF statements.
- Block-IF structure.
- Arithmetic IF statement.
- DO statement.
- DO-loop execution.
- Nested DO-loops.
- DO Loop transfers.
- Statements: CONTINUE, GOTO, STOP, PAUSE, and END.

Chapter 5: Initialization

You will learn:

- Data statement.
- BLOCK DATA subprogram.

Chapter 6: Subprograms

You will learn:

- Main programs.
- PROGRAM statement.
- Function subprograms.
- FUNCTION statement.
- Function reference.
- Statement functions.
- Intrinsic functions.
- Subroutine subprograms.
- SUBROUTINE statement.
- CALL statement.
- ENTRY statement.
- Communication between program units.
- Dummy arguments.

Chapter 7: Input/Output

You will learn:

- Data transfer.
- Input/output statement.
- Records: unformatted and formatted.
- Endfile record.
- Files: external and internal.
- Input/output list.
- Arrays and Implied DO-loops.
- Control information list.
- Unit and format specifier.
- Variable format.
- Error, End-file, Record specifier.
- Input/Output Status Specifier and formats.
- FORMAT statement.
- CHARACTER format specifications.
- Form of a format specification.
- Format record length specification.
- Format control.
- Editing: Integer, F, E, D, G.
- Logical editing.
- Character editing.
- Scale factor - kP.
- Editing: nX, nH, Tn, BN, BZ.
- Repeated format specification groups.
- Carriage control on output.

Chapter 8: Auxiliary Input/Output Statements

You will learn:

- Statements: CLOSE, INQUIRE, REWIND, BACKSPACE.
- Specifiers.
- File positioning statements.