

```
Integer Sij(#ports,#ports) ! allocate space for handles
                          for each Framis in the full matrix
Sij(1:#ports,1:#ports)=0 ! initialize all Framis to null
```

```
! Treat all text after [Sparse Matrix Mapping] until next
  [] keyword as a single string called String
```

```
Colon_Number = 0 ! initialize colon number to null
For (each : in String)
  Colon_Number = Colon_Number + 1 ! this must be <=
    [Number of Framis] ; else an ERROR
  Verify that ":" is preceded by an integer number ==
    Colon_Number ; else an ERROR
  For each "(" following this ":", and before the next ":"
    Find matching ")" ; else an ERROR
    Parse (i,j) for i and j ; else an ERROR
    Verify i, and j are >0, and <= #ports ; else an ERROR
    Verify Sij(ij)==0, or == Colon_Number ; else an ERROR
    Sij(i,j)= Colon_Number
    If (Matrix is symmetric)
      Verify Sij(ji)==0, or == Colon_Number ; else ERROR
      Sij(j,i)= Colon_Number
    Endif
  Endfor
Endfor
Verify Colon_Number==[Number of Framis] ; else an ERROR
```

Good practice would be to require the number preceding the ":" be on the same line as the ":", but the above pseudo code does not require it. This can be enforced by changing:

```
Verify that ":" is preceded by an integer number ==
    Colon_Number ; else an ERROR
```

To

```
Verify that ":" is preceded by an integer number before
the next preceding <lf> or <cr> and this number ==
Colon_Number ; else an ERROR
```