and denote the characteristic impedance and admittance of the th section of the upper transmission line, respectively, and and denote those of the th section of the lower transmission line.

The optimum design procedure requires determination of the widths and lengths of metallic strips and values of resistors of the divider. An error function is constructed according to the specifications, **which depends on the geometrical configuration** and above parameters of the divider, and its minimization determines their optimum values.

Initial Values of Metallic Strip Widths:

The characteristic admittance of the output line sections are chosen in such a way that the admittances seen from points E and F be in the ratio of

The initial characteristic admittance of output line sections are selected as