Relation des matrices suivantes :

- La matrice de transfert ou chaîne (a),
- La matrice impédance (Z),
- La matrice admittance (Y),
- La matrice hybride (H),
- La matrice en (G)

	[a]	[Z]	[Y]	[H]	[G]
[a]	A B C D	$\begin{array}{ccc} \frac{Z_{11}}{Z_{21}} & \frac{\Delta Z}{Z_{21}} \\ \frac{1}{Z_{21}} & \frac{Z_{22}}{Z_{21}} \end{array}$	$-\frac{Y_{22}}{Y_{21}} - \frac{1}{Y_{21}} \\ -\frac{\Delta Y}{Y_{21}} - \frac{Y_{11}}{Y_{21}}$	$-\frac{\Delta H}{H_{21}} - \frac{H_{11}}{H_{21}} - \frac{1}{H_{21}} - \frac{1}{H_{21}}$	$\begin{array}{ccc} \frac{1}{G_{21}} & \frac{G_{22}}{G_{21}} \\ \frac{G_{11}}{G_{21}} & \frac{\Delta G}{G_{21}} \end{array}$
[Z]	$ \frac{A}{C} \frac{AD - BC}{C} $ $ \frac{1}{C} \frac{D}{C} $	$egin{array}{cccc} Z_{11} & Z_{12} \ Z_{21} & Z_{22} \ \end{array}$	$\begin{array}{ccc} \frac{Y_{22}}{\Delta Y} & -\frac{Y_{12}}{\Delta Y} \\ -\frac{Y_{21}}{\Delta Y} & \frac{Y_{11}}{\Delta Y} \end{array}$	$\begin{array}{c c} \frac{\Delta H}{H_{22}} & \frac{H_{12}}{H_{22}} \\ -\frac{H_{21}}{H_{22}} & \frac{1}{H_{22}} \end{array}$	$\begin{array}{ccc} \frac{1}{G_{11}} & -\frac{G_{12}}{G_{11}} \\ \frac{G_{21}}{G_{11}} & \frac{\Delta G}{G_{11}} \end{array}$
[Y]	$\begin{array}{cc} \frac{B}{D} & -\frac{AD - BC}{B} \\ -\frac{1}{B} & \frac{A}{B} \end{array}$	$\begin{array}{ccc} \frac{Z_{22}}{\Delta Z} & -\frac{Z_{12}}{\Delta Z} \\ -\frac{Z_{21}}{\Delta Z} & \frac{Z_{11}}{\Delta Z} \end{array}$	Y_{11} Y_{12} Y_{21} Y_{22}	$\begin{array}{ccc} \frac{1}{H_{11}} & -\frac{H_{12}}{H_{11}} \\ \frac{H_{21}}{H_{11}} & \frac{\Delta H}{H_{11}} \end{array}$	$\begin{array}{ccc} \underline{\Delta G} & \underline{G}_{12} \\ \overline{G}_{22} & \overline{G}_{22} \\ -\underline{G}_{21} & \underline{1} \\ \overline{G}_{22} & \overline{G}_{22} \end{array}$
[H]	$\frac{B}{D} \frac{AD - BC}{D}$ $-\frac{1}{D} \frac{C}{D}$	$\begin{array}{ccc} \frac{\Delta Z}{Z_{22}} & \frac{Z_{12}}{Z_{22}} \\ -\frac{Z_{21}}{Z_{22}} & \frac{1}{Z_{22}} \end{array}$	$\begin{array}{ccc} \frac{1}{Y_{11}} & -\frac{Y_{12}}{Y_{11}} \\ \frac{Y_{21}}{Y_{11}} & \frac{\Delta Y}{Y_{11}} \end{array}$	$H_{11} H_{12} \\ H_{21} H_{22}$	$\begin{array}{ccc} \frac{G_{22}}{\Delta G} & -\frac{G_{12}}{\Delta G} \\ -\frac{G_{21}}{\Delta G} & \frac{G_{11}}{\Delta G} \end{array}$
[G]	$ \begin{array}{c c} C & AD-BC \\ \hline A & A \\ \hline 1 & B \\ A & A \end{array} $	$\begin{array}{ccc} \frac{1}{Z_{11}} & -\frac{Z_{12}}{Z_{11}} \\ \frac{Z_{21}}{Z_{11}} & \frac{\Delta Z}{Z_{11}} \end{array}$	$\begin{array}{c c} \frac{\Delta Y}{Y_{22}} & \frac{Y_{12}}{Y_{22}} \\ -\frac{Y_{21}}{Y_{22}} & \frac{1}{Y_{22}} \end{array}$	$\begin{array}{ccc} \frac{H_{22}}{\Delta H} & -\frac{H_{12}}{\Delta H} \\ -\frac{H_{21}}{\Delta H} & \frac{H_{11}}{\Delta H} \end{array}$	G_{11} G_{12} G_{21} G_{22}

 Δ : représente le déterminant d'une matrice