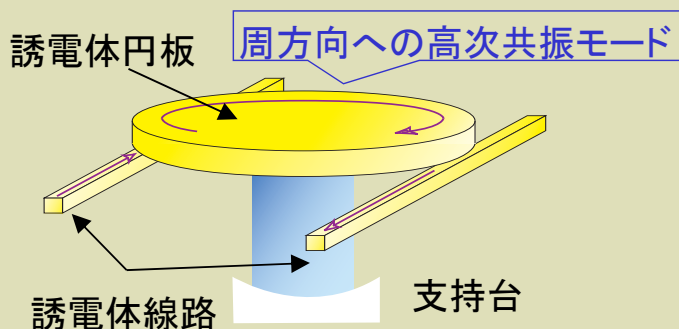
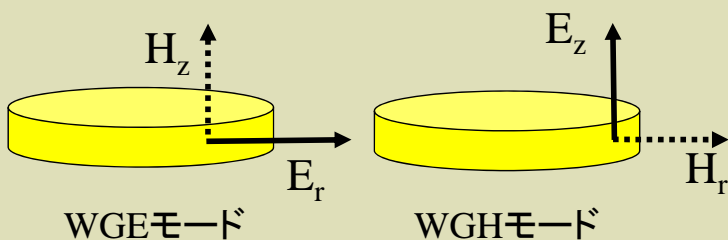


WG誘電体共振器による複素誘電率測定

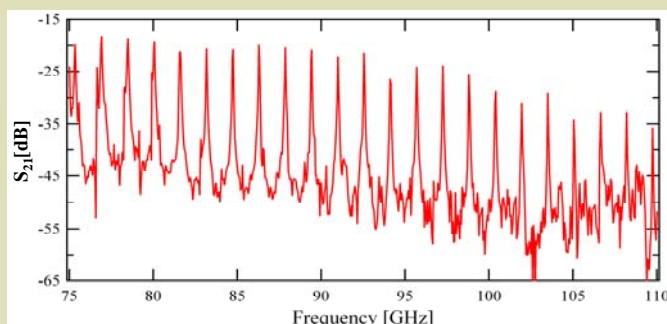
WGモード誘電体共振器法



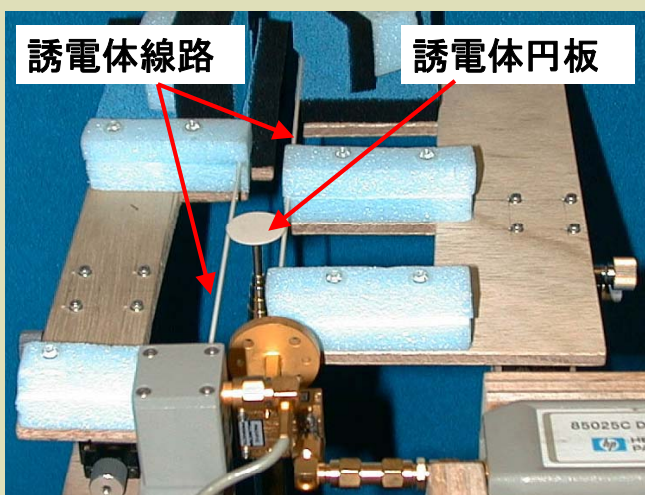
(a) WGモード誘電体共振器の構成



(b) 軸方向偏波と半径方向偏波



(d) 周波数応答の例



(c) 測定システムの写真

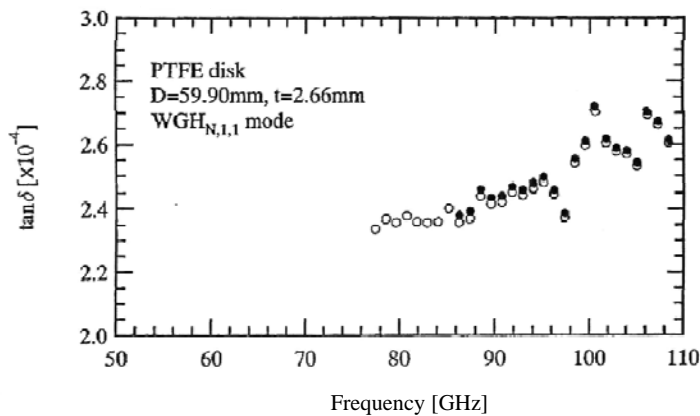
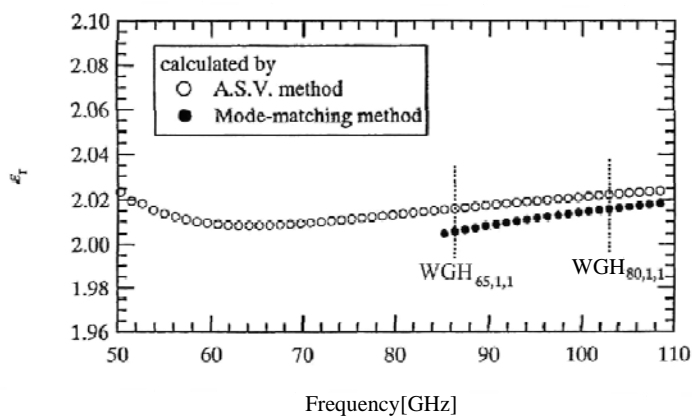
比誘電率 ϵ_r

$$F_N = \frac{f_{N-1} + f_{N+1}}{2}$$

誘電正接 $\tan \delta$

$$\tan \delta = \frac{1}{Q_u} \frac{f_0}{(-\Delta f / \Delta \epsilon_r) \cdot 2\epsilon_r}$$

測定結果



(a) PTFE 円板の複素誘電率の測定結果