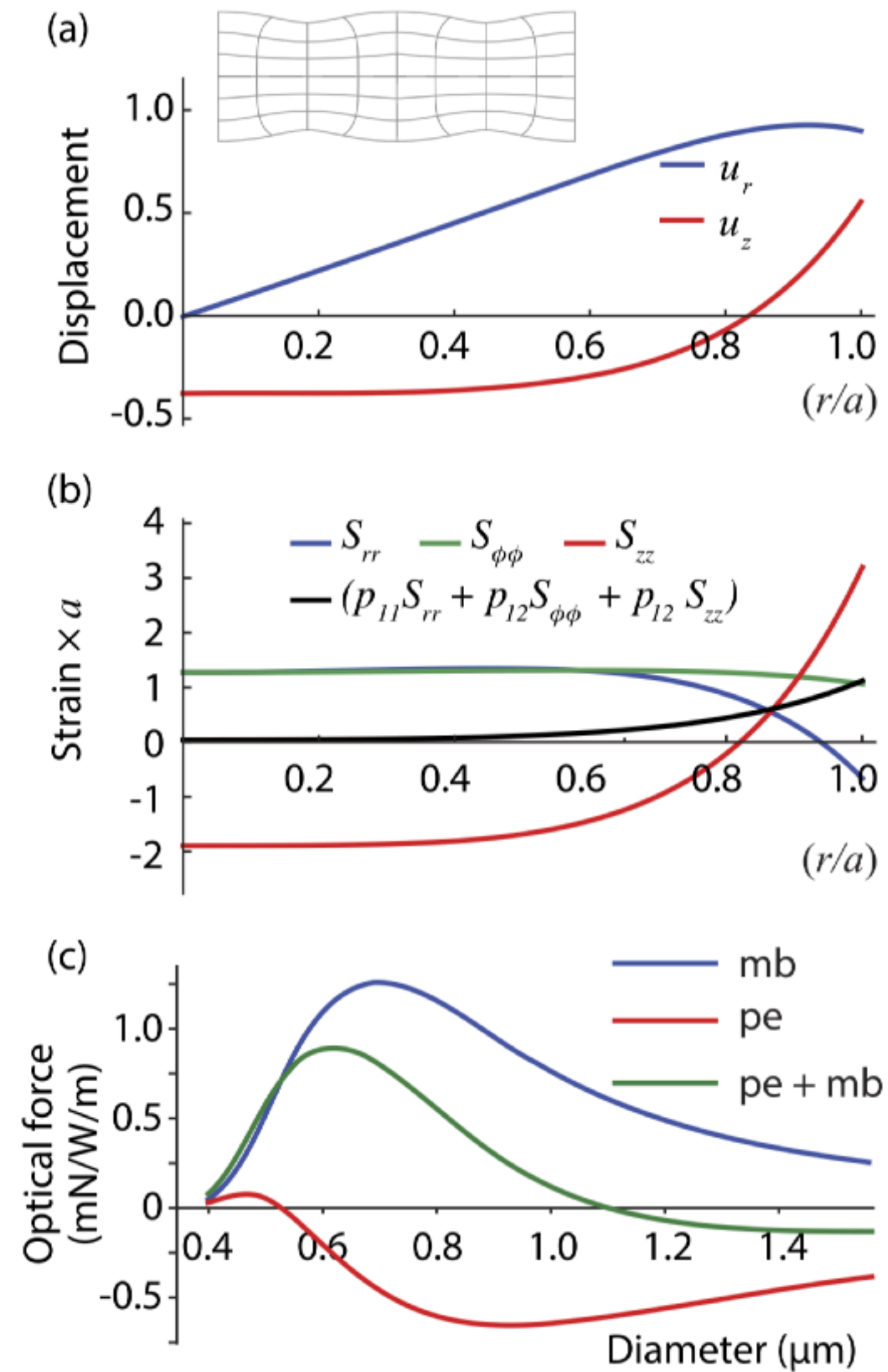
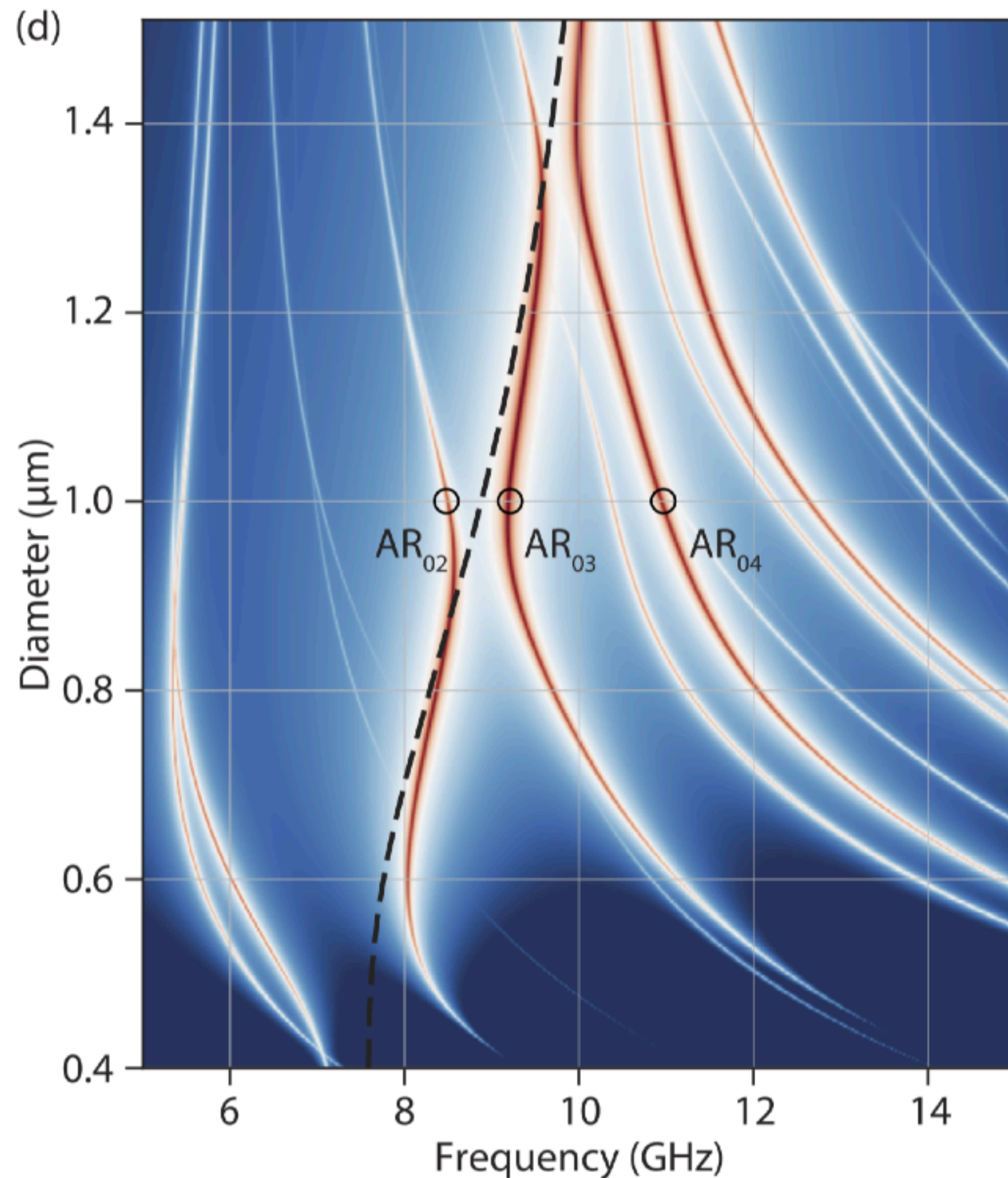
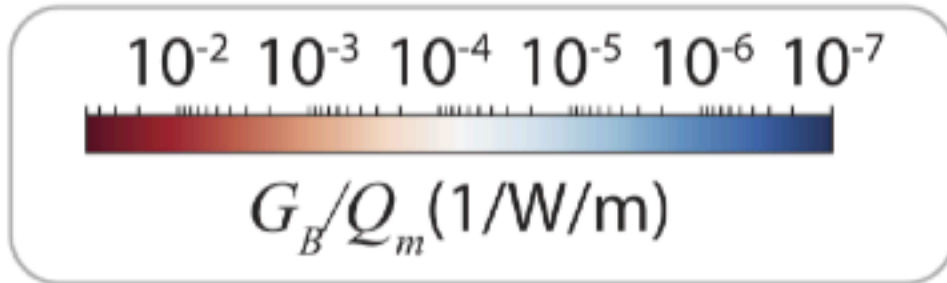




# Silica nanowire revisited



$$f_{mb}^{(wg)} = \frac{\mathbf{u}^* \cdot \hat{n} \left( \delta\epsilon_{mb} \mathbf{E}_{p,\parallel}^* \cdot \mathbf{E}_{s,\parallel} - \delta\epsilon_{mb}^{-1} \mathbf{D}_{p,\perp}^* \cdot \mathbf{D}_{s,\perp} \right)}{\max(|\mathbf{u}|) N_p^{(wg)} N_s^{(wg)}}$$

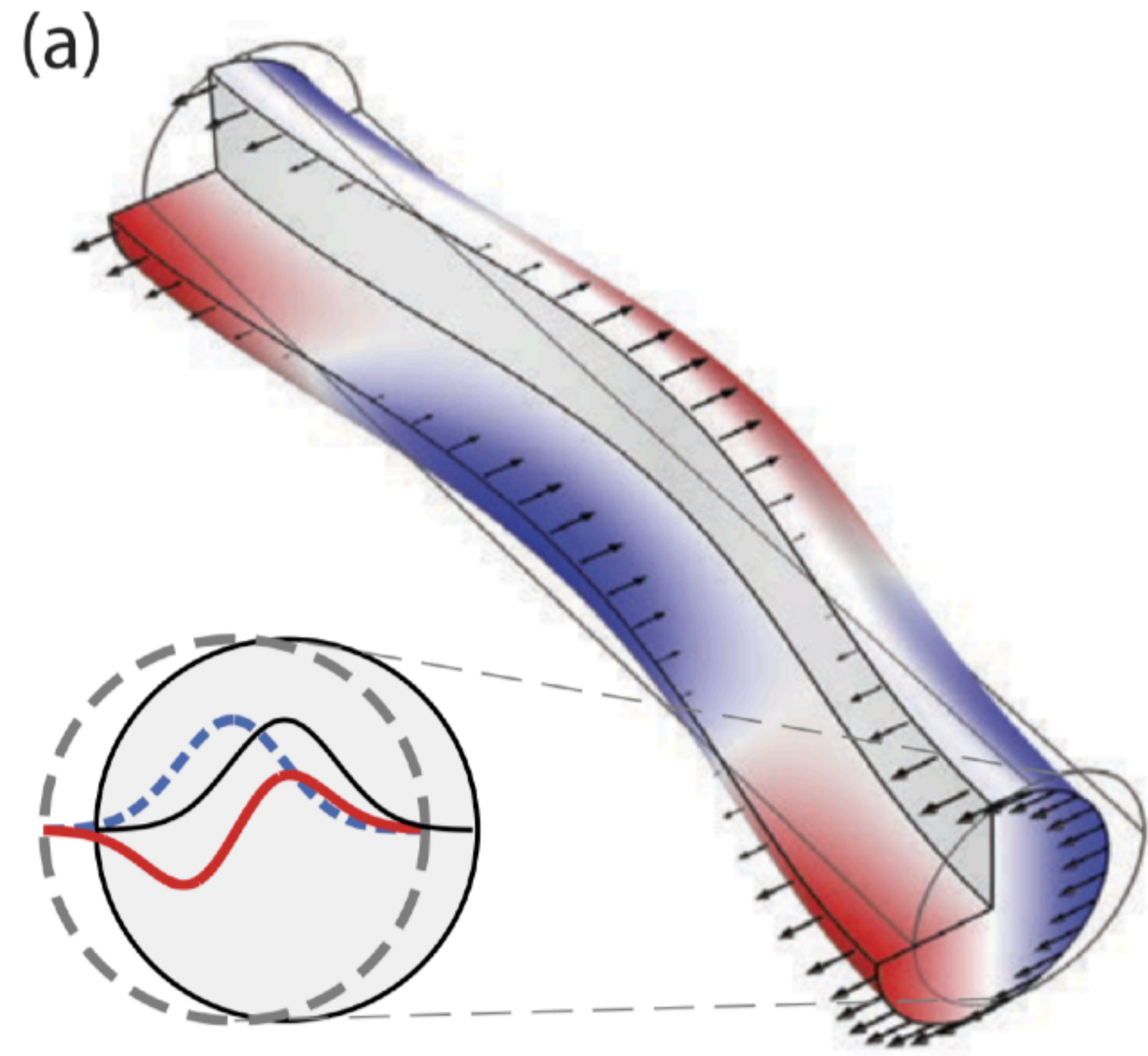
$$f_{pe}^{(wg)} = \frac{\mathbf{E}_p^* \cdot \delta\epsilon_{pe}^* \cdot \mathbf{E}_s}{\max(|\mathbf{u}|) N_p^{(wg)} N_s^{(wg)}}$$

$$\delta\epsilon_{pe} = -\epsilon_0 n^4 \mathbf{p} : \mathbf{S}$$

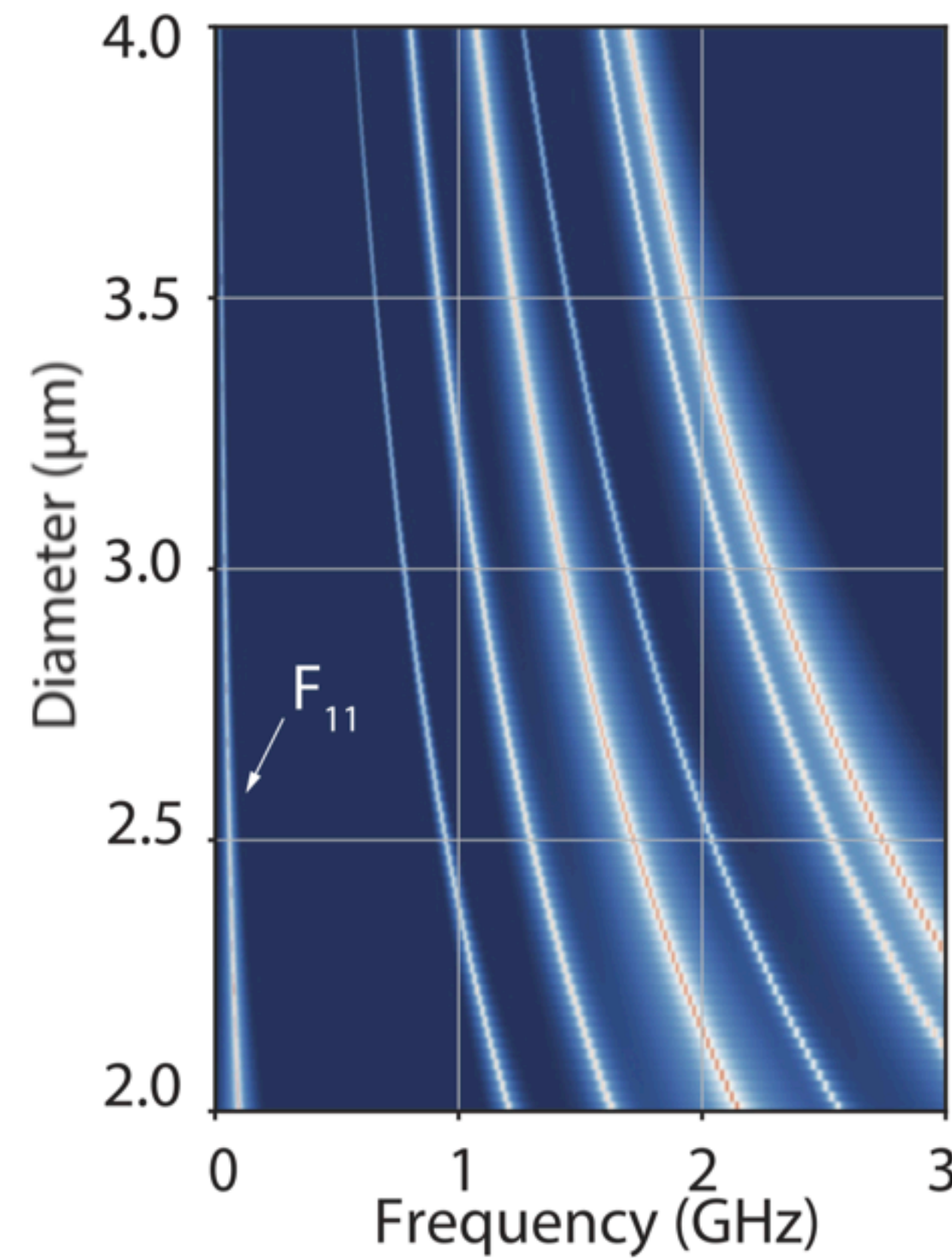
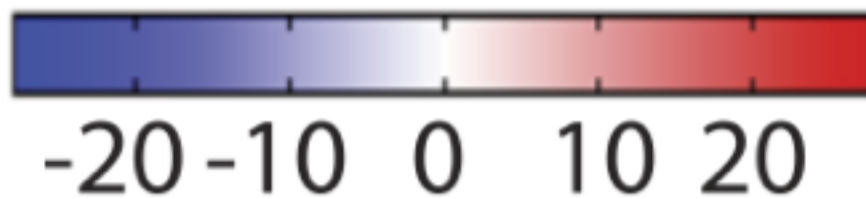




# Silica nanowire revisited



Strain per unit  
displacement [ $1/\mu\text{m}$ ]



$G_B/Q_m$  ( $1/\text{W}/\text{m}$ )

