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Hybrid surface plasmons in the structures consisting of three or four nanowires that placed at the vertices of an equilateral triangle or a square (triangular or square clusters) are theoretically investigated. Classes of symmetry and field distributions of plasmonic modes, their spectral characteristics and Q-factors are investigated.

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[3], [4].

$$\varepsilon_p = 1 - \left(\frac{\omega_p^2}{\omega(\omega - i\gamma)} \right), \quad \omega_p - , \gamma$$

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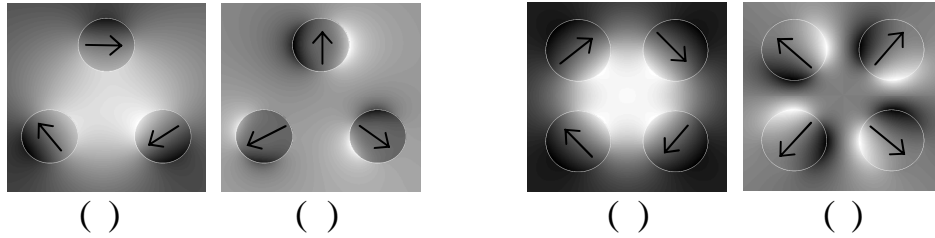
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1. Peters L. Jr., Richmond J.H. Scattering from cylindrical nonhomogeneous lossy medium // Radio Science. 1982. Vol. 17, 6. Pp. 973.
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