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Transient pulsed beam excitation of the surface plasmon polaritons in metallic cylinder and shell is visualized and analyzed. The complex source point concept is used to simulate an incident transient beam. Rigorous mathematical method based on the Laplace transformation has been applied. Time domain field representation is obtained through the evaluation of the residues at singular points associated with the eigenvalues of the structure and integrals along the branch-cuts of a complex plane.

(FDTD),

[1]

« » [2].

