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**Asymptotic Expansions of the
Eigenlements of Spectral Problems with
Quickly Oscillating Coefficients in Thin
Perforated Domains**

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New results concerning the construction of complete asymptotic expansions with respect to ε for eigenvalues and eigenfunctions of the Neumann spectral problem with ε -periodic coefficients in thin perforated domains with rapidly varying thickness, with different limiting dimensions and with different boundary conditions (Dirichlet, Neumann, Steklov) will be presented.