Abstracts

Simplified Determination of Impedances of Chebyshev Transformers (Correspondence)

If it is desired to match two different impedances by means of cascaded quarter-wavelength transformers, one may possibly refer to the tables of Young or to the design curves of Jasik. Because these works limit their information to less than seven sections, it is not possible to easily obtain the characteristic impedances for transformers which must operate over a large frequency band or which have very low reflection coefficients. The evaluation of the characteristic impedances for transformers having eight or more sections is very tedious. One can, however, evolve a relationship between the characteristic impedances of Chebyshev transformers and the excitation coefficients of Chebyshev arrays.

❏