

5.6 - Binomial Multi-section Matching Transformer

Reading Assignment: *pp. 246-250*

One way to **maximize bandwidth** is to construct a multisection matching network with a function $\Gamma(f)$ that is **maximally flat**.

Q: *Maximally flat? What kind of function is maximally flat?*

This function maximizes bandwidth by providing a solution that is **maximally flat**.

A: HO: MAXIMALLY FLAT FUNCTIONS

1. We can build a multisection matching network such that the function $\Gamma(f)$ is a **binomial function**.
2. The binomial function is **maximally flat**.

Q: *Meaning?*

A: Meaning the function $\Gamma(f)$ is maximally flat \rightarrow a **wideband solution!**

HO: THE BINOMIAL MULTI-SECTION MATCHING TRANSFORMER