

5.5 - The Theory of Small Reflections

Reading Assignment: *pp. 244-246*

An important and useful **approximation** when considering multi-section matching networks is the **Theory of Small Reflections**.

HO: THE THEORY OF SMALL REFLECTIONS

EXAMPLE: THE THEORY OF SMALL REFLECTIONS

The Theory of Small Reflections provides a simpler mathematical form for analyzing the **frequency response** of many microwave devices.

HO: THE FREQUENCY RESPONSE OF THE QUARTER-WAVE MATCHING NETWORK

We can also use the Theory of Small Reflections to provide an **approximate** analysis of a **multi-section** impedance transformer (i.e., multi-section matching network).

HO: THE MULTI-SECTION TRANSFORMER