C. Microwave Sources

Q: A passive load $Z_L$ specifies $Z(z)$ and $\Gamma(z)$, but we still don’t explicitly know $V(z), I(z)$ or $V^+(z), V^-(z)$. How are these functions determined?

A: All of these quantities are zero, unless a source (generator) is applied to trans. line. The **boundary condition** enforced by the generator will then **explicitly** determine these functions!

**HO: A Transmission Line Connecting Source and Load**

Q: OK, we can finally ask the question that we have been concerned with since the very beginning: How much **power** is delivered to the load by the source?

A: **HO: Delivered Power**

Q: So the power transferred depends on the source, the **transmission line**, and the load. What combination of these devices will result in **maximum** power transfer?

A: **HO: Special Cases of Source and Input Impedances**